Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy or regulations. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

National Organic Standards Board (NOSB)
Livestock/Aquaculture Subcommittee (LS) Meeting Notes
Tuesday, January 6, 2015 3:00pm ET

Attending: Tracy Favre, Chair (TF), Joe Dickson, Vice Chair (JD), Colehour Bondera (CBo), Calvin Walker (CW), Francis Thicke (FT), Jean Richardson (JR), Jay Feldman (JFe) - sitting in, Ashley Swaffar (AS), 2015 NOSB member - sitting in, Paula Daniels (PD), 2015 NOSB member - sitting in in
Absent: Mac Stone (MS), Wendy Fulwider (WF)
Staff: Michelle Arsenault (MA), Emily Brown Rosen (EBR)

Work Agenda

Petitioned Materials						
Substance	**Nat'l List §**	**Contact**	**TR requested**	**Notes**	**Vote**	**Meeting**
Methionine in organic poultry feed (MET)- petitioned	205.603	MS	2011 TR	TR received 11 15 11		Proposal Spr 2015
Acidified Sodium chlorite (ASC) Petition Addendum #1 Petition Addendum #2	205.603 (a)(b)	JD/FT	2008 TR 2013 TR	Petition sent to LS 06 12 12. Petition found sufficient 09 18. TR requested on 09 18 12. TR sent to LS 05 08 13. TR found suff 07 30 13. Fall 2013 meeting cancelled. Spring 2014 sent back to LS.		Proposal Spr 2015
Aluminum Sulfate (PDF)	205.603	JR	Y	The petitioner requests two related allowances on the NL: (1) treatment of poultry litter (205.603) and (2) application of treated poultry litter to the field (205.601). Sent to LS 03 12 14. TR request sent to NOP 06 18 14. TR expected Jan 2015.		Proposal Spr 2015?
Sodium Bisulfate	205.603	JR	Y	Petition sent to LS 05 27 14. Q's for petitioner/TR request due 07 28 14. TR request sent to NOP 08 06 14. TR expected Jan 2015.		TBD
Zinc Sulfate	205.603	TF	Y	Petition sent to LS 06 16 14. Q's for petitioner/TR request due 8 19 14. Limited Scope TR request sent to NOP 08 06 14. TR expected mid-Jan 2015		TBD

Aquaculture-CO_2, (for aquatic plants)	205.609	TF/CBo	N	Petition sent to CS on 5 30 12. Will rqst modification from petitioner (for use pattern). Updated petition was deemed sufficient. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Chlorine (for aquatic plants)	205.609	~~JD~~/FT	2011 Crops TR 2006 TR 1995 TAP	Petition sent to CS on 5 30 12. Determine petition sufficiency. CS requested clarification from petitioner 11 20 12. 2011 TR deemed suff for this review 11 20 12. Additional aquaculture TR deemed unnecessary. Sent follow up questions to petitioner. Response deemed sufficient.	NA	Proposal TBD
Aquaculture-Micronutrients (for aquatic plants)	205.609	FT	2010 TR (Nickel) 6/2013 Minerals TR	Petition sent to CS on 06 08 12. Petition sufficiency response due 08 08 12? CS sent request to NL Mgr 12 04 12 for additional info. Questions clarified by petitioner. Petition found sufficient 06 18 13 and 07 02 13. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Lignin sulfonate (chelating agent for aquatic plants) (for aquatic plants) CAS #s 9009-75-0, 8062-15-5, 8061-51-6	205.609	JR	2/2011 Crops TR 7/2013 TR Aquatic Animals TR	Petition sent to CS on 07 03 12. Petition Sufficiency Response due 09 04 12. CS sent request to NL Mgr 12 04 12 for additional info and TR. Questions clarified by petitioner. Petition found sufficient 6 18 13 and 07 02 13.	NA	Proposal TBD
Aquaculture-Vitamins (B1, B12, H) for aquatic plants	205.609	CW	4/2013 Aquatic Animals TR	Petition sent to CS 08 10 12. Petition Sufficiency response due 10 10 12. Petition found sufficient 06 18 13.	NA	Proposal TBD

Aquaculture - Biologics: Vaccines for Aquatic Animals	205.611	JR	2011 TR (Vaccines made from GMOs)	Petition sent to LS 06 14 12. Petition found sufficient and TR requested on 05 21 13. (NOP note: TR sent to LS 01 24 14. TR deemed sufficient 02 03 14	NA	Proposal TBD
Aquaculture - Chlorine (for aquatic animals)	205.611	~~JD~~/FT	No Crops 2011 Crops 2006 Crops 1995 Livestock 2006 Handling 2006	Petition sent to LS on 05 30 12. Petition found sufficient 07 03 12. No TR requested	NA	Proposal TBD
Aquaculture – Tocopherols (for aquatic animals)	205.611	TF/CBo	2013 TR 1995 TAP rvw	Petition sent to LS on 05 30 12. Petition found sufficient 08 06 12. TR requested 08 06 12. Draft TR sent to LS on 04 16 13. TR found sufficient 06 04 13	NA	Proposal TBD
Aquaculture – Vitamins (for aquatic animals)	205.611	CW/FT	Yes 2013 TR	Petition sent to LS on 05 30 12. Response due ~07 30 12. Petition found sufficient 08 06 12. Requested joint TR with Minerals 08 06 12. TR sent to LS 04 29 13. TR found suff 06 18 13.	NA	Proposal TBD
Aquaculture - Trace Minerals (for aquatic animals)	205.611	CW/FT	2013 TR	Petition sent to LS on 06 08 12. Response due ~08 08 12. Petition found sufficient 08 06 12? Requested joint TR with Vitamins 08 06 12. TR sent to LS 06 25 13. Suff due 08 27 13. TR found sufficient 07 16 13. Fall 2013 meeting cancelled.	NA	Proposal TBD

2017 Sunsets TR Requests Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**TR requested**	**Notes**	**Vote**	**Meeting**
Ethanol §205.603	TF	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15		Summary: Spr 2015 Review: Fall 2015
Isopropanol §205.603	CW	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15		
Chlorhexidine §205.603	~~JD~~/FT	2010 TR Y	TR requested 08 15 14. TR expected Jan/Feb 2015		
Copper sulfate §205.603	TF	1995 TAP Y Lmtd Scope	TR in development (expected Dec 2014)		

Electrolytes §205.603	CW	1995 TAP	TR expected Jan/Feb 2015		
Excipients §205.603	CBo	Y	TR expected Jan/Feb 2015		
Fenbendazole §205.603	FT	1999 TR Y	Combined with other paraciticides (Moxidectin and Ivermectin). TR expected Jan/Feb 2015		
Ivermectin §205.603	FT	1999 TR Y	Combined with other paraciticides (Fendbendazole and Moxidectin). TR expected Jan/Feb 2015		
Moxidectin §205.603	FT	2003 TR Y	Combined with other paraciticides (Fendbendazole and Ivermectin). TR expected Jan/Feb 2015		
Hydrated lime §205.603	TF	1995 TAP	TR expected Jan/Feb 2015		
Hydrogen peroxide §205.603	CW	Y (for Crops 205.601(a))	TR for Crops expected Jan/Feb 2015		
Iodine 205.603(a)(14) and 205.603 (b)(2)	JR	1994 TAP Y	TR expected Jan/Feb 2015. TR sent to LS 01 07 15. Suff due 03 06 15		
Mineral oil §205.603	CBo	2002 TR Y	TR expected Jan/Feb 2015		
Vitamins §205.603	CW	Y Lmtd scope	TR expected Jan/Feb 2015		

Other projects					
Project	**Contact**	**TR Reqst?**	**Notes**	**Vote**	**Meeting**
AQ Review Legacy summary	TF		Summary of the AQ review to date.	NA	Disc Doc Spr 2015

* Yellow highlight indicates committee action needed

Agenda

- Approve notes from December 16, 2014
- 2017 sunsets (TF). Discuss TR sufficiency - Ethanol, Copper sulfate
- 2017 sunsets (FT/JD). Discuss summary - Calcium hypochlorite, Chlorine dioxide and Sodium hypochlorite
- 2017 sunsets (CW). Discuss TR sufficiency - Isopropanol
- Adjourn

Discussion

- **Notes from** December 16, 2014 approved with minor changes to initials and scheduling of materials.
- **2017 sunsets** (TF).
  - **Ethanol**. TR found sufficient. TF will let the program know.
  - **Copper sulfate**. TR is not back yet.

- **2017 sunsets - Chlorine materials: Calcium hypochlorite, Chlorine dioxide and Sodium hypochlorite** (FT/JD). The co-leads discussed the proposal for chlorine materials and noted that this has been a complex issue, although the NOP provided some clarification guidance about the use of chlorine as an egg wash, which was referenced in the proposal. The crops chlorine annotation was been updated based on an NOSB recommendation, however the LS has not proposed a parallel update in the livestock listing. A separate proposal to change the livestock chlorine annotation could be made by LS outside of sunset process, however a written protocol is lacking at present, and members asked NOP for progress on this issue. JD will include in the LS review some of the information from the Handling review of chlorine and then pass it along to FT for discussion and presentation.
- **2017 sunsets - Isopropanol** (CW). The Chair read the summary that the lead provided, as CW dropped off the call. The TR was found sufficient.
- **MET** - will discuss the final proposal further on Jan 27 and vote on the Feb 2 call.
- **Aquaculture (AQ) legacy doc** - The NOP sent feedback to the LS today, which included a suggestion about incorporating a reference to the National Organic AQ working group white paper.. TF will review the NOP feedback and the white paper and will share the edited version with the group on the Jan 27 call. Members discussed the summary of public comment, which one of the members was working on. The member noted that the task was much larger or more overwhelming than he thought and indicated that he may not be able to finish it before the proposal deadline. One of the new Board members asked about the possibility of hiring help to compile the comment. Although members feel this task should be undertaken by the Board, they also noted that there isn't a confidentiality issue, since public comment is open source information. The LS Chair asked that any feedback be sent to her by Feb 6.
- **The meeting was adjourned**

<u>Previous LS Notes</u>
Future Call Schedule:

Dec 16, 2014 3:00 ET
2017 sunset materials - Schedule discussions of TRs, checklists and votes

Jan 6, 2015 3:00 ET
2017 sunsets (TF). Discuss TR sufficiency - Ethanol, Copper sulfate
2017 sunsets (FT/JD). Discuss summary - Calcium hypochlorite, Chlorine dioxide and Sodium hypochlorite
2017 sunsets (CW). Discuss TR sufficiency - Isopropanol
Acidified Sodium Chlorite (FT)- discuss proposal/vote

Jan 20, 2015 3:00 ET
Acidified Sodium Chlorite (FT)- discuss proposal/vote
2017 sunsets (TF). Discuss TR sufficiency (if TR is done) - Copper sulfate
2017 sunsets (JR). Discuss summaries - Aspirin, Lidocaine, Peracetic acid, Phosphoric acid, Procaine, Vaccines, Strychnine
2017 sunsets (CW). Discuss TR sufficiency (if TR is back) or possible questions - Electrolytes, Hydrogen peroxide, Vitamins. Discuss summaries/questions - Glucose, Oxytocin
2017 sunsets (FT). Discuss TR sufficiency/reassign - Chlorhexidine
2017 sunsets (JR). Discuss TR sufficiency - Iodine

Jan 27, 2015 - additional call
2017 sunsets (TF). Discuss TR sufficiency - hydrated lime
MET discussion/vote

Feb 2 2:00 ET. Note: this is a Monday

MET- discuss proposal if more discussion is needed/vote

2017 sunsets (FT). Discuss TR sufficiency - Fenbendazole, Ivermectin, Moxidectin.

Discuss summaries - Poloxalene, Sucrose octanoate esters, Trace minerals, Tolazoline

2017 sunsets (CBo). Discuss TR sufficiency - Excipients, Mineral oil.

Discuss summaries - Butorphanol, Formic Acid, Xylazine

Feb 17, 2015 3:00 ET

2017 sunsets (TF). Discuss summaries - Atropine, EPA List 4 Inerts, Flunixin, Furosemide, Glycerine, Magnesium hydroxide, Magnesium sulfate, Methionine

Zinc Sulfate - discuss TR/checklist

AQ legacy doc follow up discussion and vote (TF). Vote on AQ Subcomm

Mar 3, 2015 3:00 ET

Mar 17, 2015 3:00 ET

Apr 7, 2015 3:00 ET

Apr 21, 2015 3:00 ET

Spring 2015 Milestones	Target date
NOSB Training	Feb 4-5, 2015
NOP - Complete Spring 2015 NOSB meeting tentative agenda	Feb 7, 2015
NOSB - Spring 2015 proposals due to NOP	Feb 25, 2015
NOP - Post proposals, Publish FRN, Open public comment	Mar 9, 2015
Discuss work agendas on ES call	Mar 13, 2015
Public comment closes	Apr 6, 2015
Work agendas finalized on ES call (last call before spring mtg)	Apr 10, 2015
NOP - Send compiled public comments to NOSB	Apr 13, 2015
Spring 2015 NOSB meeting - La Jolla, CA	Week of April 27 - 30

2017 Sunsets (No TRs) Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**New TR reqst?**	**Notes**	**Vote**	**Meeting**
Aspirin §205.603	JR	N (04 01)		01 20	Summary: Spr 2015 Review: Fall 2015

Atropine §205.603	TF	N (06 03)			
Butorphanol §205.603	CBo	2002 TR Y	New TR requested. Not contracted.		
Calcium hypochlorite §205.603	TF/JD	N (06 17)			
Chlorine dioxide	TF/JD	N (06 17)			
EPA List 4 - Inerts of Minimal Concern §205.603	TF	N (06 03)			
Flunixin §205.603	TF	N (06 03)			
Formic Acid §205.603	CBo	N (06 17)			
Furosemide §205.603	TF	N (06 03)			
Glucose §205.603	CW	N (07 01)			
Glycerine §205.603	TF	N (06 03)			
Lidocaine §205.603	JR	N (04 01)			
Magnesium hydroxide §205.603	TF	N			
Magnesium sulfate §205.603	TF	N			
Methionine §205.603	TF	N			
Oxytocin §205.603	CW	N (07 01)			
Peracetic acid §205.603	JR	N (04 01)			
Phosphoric acid §205.603	JR	N (04 01)			
Poloxalene §205.603	FT	N			
Procaine §205.603	JR	N (04 01)			
Sodium hypochlorite §205.603	FT/JD	N (06 17)			
Strychnine 205.604	JR	N (04 01)			
Sucrose octanoate esters §205.603	FT	N			
Trace minerals §205.603	FT	N			

Vaccines §205.603	JR	N (04 01)			
Tolazoline §205.603	FT	2002 TR Y	New TR requested. Not contracted.		
Xylazine §205.603	CBo	2002 TR Y	New TR requested. Not contracted.		

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy or regulations. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

National Organic Standards Board (NOSB)
Livestock/Aquaculture Subcommittee (LS) Meeting Notes
Tuesday, January 20, 2015 3:00pm ET

Attending: Tracy Favre, Chair (TF), Colehour Bondera (CBo), Calvin Walker (CW), Francis Thicke (FT), Jean Richardson (JR), Mac Stone (MS), Ashley Swaffar (AS), 2015 NOSB member - sitting in, Carmela Beck (CBe)
Absent: Joe Dickson, Vice Chair, Wendy Fulwider (WF)
Staff: Michelle Arsenault (MA), Emily Brown Rosen (EBR)

Work Agenda

Petitioned Materials						
Substance	**Nat'l List §**	**Contact**	**TR requested**	**Notes**	**Vote**	**Meeting**
Methionine in organic poultry feed (MET)- petitioned	205.603	MS	2011 TR	TR received 11 15 11	Vote scheduled for 01 27 15	Proposal Spr 2015
Acidified Sodium chlorite (ASC) Petition Addendum #1 Petition Addendum #2	205.603 (a)(b)	JD/FT	2008 TR 2013 TR	Petition sent to LS 06 12 12. Petition found sufficient 09 18. TR requested on 09 18 12. TR sent to LS 05 08 13. TR found suff 07 30 13. Fall 2013 meeting cancelled. Spring 2014 sent back to LS.	Vote scheduled for 01 27 15	Proposal Spr 2015
Aluminum Sulfate (PDF)	205.603	JR	Y	The petitioner requests two related allowances on the NL: (1) treatment of poultry litter (205.603) and (2) application of treated poultry litter to the field (205.601). Sent to LS 03 12 14. TR request sent to NOP 06 18 14. TR expected Jan 2015.		Proposal Spr 2015?
Sodium Bisulfate	205.603	JR	Y	Petition sent to LS 05 27 14. Q's for petitioner/TR request due 07 28 14. TR request sent to NOP 08 06 14. TR expected Jan 2015.		TBD
Zinc Sulfate	205.603	TF	Y	Petition sent to LS 06 16 14. Q's for petitioner/TR request due 8 19 14. Limited Scope TR request sent to NOP 08 06 14. TR expected mid-Jan 2015		TBD

Aquaculture-CO_2, (for aquatic plants)	205.609	TF/CBo	N	Petition sent to CS on 5 30 12. Will rqst modification from petitioner (for use pattern). Updated petition was deemed sufficient. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Chlorine (for aquatic plants)	205.609	~~JD~~/FT	2011 Crops TR 2006 TR 1995 TAP	Petition sent to CS on 5 30 12. Determine petition sufficiency. CS requested clarification from petitioner 11 20 12. 2011 TR deemed suff for this review 11 20 12. Additional aquaculture TR deemed unnecessary. Sent follow up questions to petitioner. Response deemed sufficient.	NA	Proposal TBD
Aquaculture-Micronutrients (for aquatic plants)	205.609	FT	2010 TR (Nickel) 6/2013 Minerals TR	Petition sent to CS on 06 08 12. Petition sufficiency response due 08 08 12? CS sent request to NL Mgr 12 04 12 for additional info. Questions clarified by petitioner. Petition found sufficient 06 18 13 and 07 02 13. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Lignin sulfonate (chelating agent for aquatic plants) (for aquatic plants) CAS #s 9009-75-0, 8062-15-5, 8061-51-6	205.609	JR	2/2011 Crops TR 7/2013 TR Aquatic Animals TR	Petition sent to CS on 07 03 12. Petition Sufficiency Response due 09 04 12. CS sent request to NL Mgr 12 04 12 for additional info and TR. Questions clarified by petitioner. Petition found sufficient 6 18 13 and 07 02 13.	NA	Proposal TBD
Aquaculture-Vitamins (B1, B12, H) for aquatic plants	205.609	CW	4/2013 Aquatic Animals TR	Petition sent to CS 08 10 12. Petition Sufficiency response due 10 10 12. Petition found sufficient 06 18 13.	NA	Proposal TBD

Aquaculture - Biologics: Vaccines for Aquatic Animals	205.611	JR	2011 TR (Vaccines made from GMOs)	Petition sent to LS 06 14 12. Petition found sufficient and TR requested on 05 21 13. (NOP note: TR sent to LS 01 24 14. TR deemed sufficient 02 03 14	NA	Proposal TBD
Aquaculture - Chlorine (for aquatic animals)	205.611	~~JD~~/FT	No Crops 2011 Crops 2006 Crops 1995 Livestock 2006 Handling 2006	Petition sent to LS on 05 30 12. Petition found sufficient 07 03 12. No TR requested	NA	Proposal TBD
Aquaculture – Tocopherols (for aquatic animals)	205.611	TF/CBo	2013 TR 1995 TAP rvw	Petition sent to LS on 05 30 12. Petition found sufficient 08 06 12. TR requested 08 06 12. Draft TR sent to LS on 04 16 13. TR found sufficient 06 04 13	NA	Proposal TBD
Aquaculture – Vitamins (for aquatic animals)	205.611	CW/FT	Yes 2013 TR	Petition sent to LS on 05 30 12. Response due ~07 30 12. Petition found sufficient 08 06 12. Requested joint TR with Minerals 08 06 12. TR sent to LS 04 29 13. TR found suff 06 18 13.	NA	Proposal TBD
Aquaculture - Trace Minerals (for aquatic animals)	205.611	CW/FT	2013 TR	Petition sent to LS on 06 08 12. Response due ~08 08 12. Petition found sufficient 08 06 12? Requested joint TR with Vitamins 08 06 12. TR sent to LS 06 25 13. Suff due 08 27 13. TR found sufficient 07 16 13. Fall 2013 meeting cancelled.	NA	Proposal TBD

2017 Sunsets TR Requests Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**TR requested**	**Notes**	**Summary discussion**	**Meeting**
Ethanol §205.603	TF	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	Scheduled for 01 27	Summary: Spr 2015 Review: Fall 2015
Isopropanol §205.603	CW	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	01 06 15	
Chlorhexidine §205.603	~~JD~~/FT/ CW	2010 TR Y	TR requested 08 15 14. TR expected Jan/Feb 2015	Scheduled 02 02 15	

Copper sulfate §205.603	TF	1995 TAP Y Lmtd Scope	TR in development (expected Dec 2014)	Scheduled for 01 27	
Electrolytes §205.603	CW	1995 TAP	TR expected Jan/Feb 2015	Scheduled for 02 02 15	
Excipients §205.603	CBo	Y	TR expected Jan/Feb 2015	Scheduled for 02 02 15	
Fenbendazole §205.603	FT	1999 TR Y	Combined with other paraciticides (Moxidectin and Ivermectin). TR expected Jan/Feb 2015	Scheduled for 02 02 15	
Ivermectin §205.603	FT	1999 TR Y	Combined with other paraciticides (Fendbendazole and Moxidectin). TR expected Jan/Feb 2015	Scheduled for 02 02 15	
Moxidectin §205.603	FT	2003 TR Y	Combined with other paraciticides (Fendbendazole and Ivermectin). TR expected Jan/Feb 2015	Scheduled for 02 02 15	
Hydrated lime §205.603	TF	1995 TAP	TR expected Jan/Feb 2015	Scheduled for 01 27 15	
Hydrogen peroxide §205.603	CW	Y (for Crops 205.601(a))	TR for Crops expected Jan/Feb 2015	Scheduled for 02 02 15	
Iodine 205.603(a)(14) and 205.603 (b)(2)	JR	1994 TAP Y	TR expected Jan/Feb 2015. TR sent to LS 01 07 15. Suff due 03 06 15. TR found sufficient 01 20 15	01 20 15	
Mineral oil §205.603	CBo	2002 TR Y	TR expected Jan/Feb 2015	Scheduled for 02 02 15	
Vitamins §205.603	CW	Y Lmtd scope	TR expected Jan/Feb 2015	Scheduled for 02 02 15	

2017 Sunsets (No TRs) Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**New TR reqst?**	**Notes**	**Discussed**	**Meeting**
Aspirin §205.603	JR	N (04 01)		01 20 15	Summary: Spr 2015 Review: Fall 2015
Atropine §205.603	TF	N (06 03)		Scheduled for 02 17 15	
Butorphanol §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	Scheduled for 02 02 15	
Calcium hypochlorite §205.603	FT/~~JD~~	N (06 17)		01 06 15 not completed. Scheduled for 01 27 15	
Chlorine dioxide	FT/~~JD~~	N (06 17)		01 06 15 not completed. Scheduled for 01 27 15	

EPA List 4 - Inerts of Minimal Concern §205.603	TF	N (06 03)		Scheduled for 02 17 15	
Flunixin §205.603	TF	N (06 03)		Scheduled for 02 17 15	
Formic Acid §205.603	CBo	N (06 17)		Scheduled for 02 02 15	
Furosemide §205.603	TF	N (06 03)		Scheduled for 02 17 15	
Glucose §205.603	CW	N (07 01)		01 20 15	
Glycerine §205.603	TF	N (06 03)		Scheduled for 02 17 15	
Lidocaine §205.603	JR	N (04 01)		01 20 15	
Magnesium hydroxide §205.603	TF	N		Scheduled for 02 17 15	
Magnesium sulfate §205.603	TF	N		Scheduled for 02 17 15	
Methionine §205.603	TF	N		Scheduled for 02 17 15	
Oxytocin §205.603	CW	N (07 01)		01 20 15	
Peracetic acid §205.603	JR	N (04 01)		01 20 15	
Phosphoric acid §205.603	JR	N (04 01)		01 20 15	
Poloxalene §205.603	FT	N		Scheduled for 02 02 15	
Procaine §205.603	JR	N (04 01)		01 20 15	
Sodium hypochlorite §205.603	FT/JD	N (06 17)		01 06 15 not completed. Scheduled for 01 27 15	
Strychnine 205.604	JR	N (04 01)		01 20 15	
Sucrose octanoate esters §205.603	FT	N		Scheduled for 02 02 15	
Trace minerals §205.603	FT	N		Scheduled for 02 02 15	
Vaccines §205.603	JR	N (04 01)		01 20 15	
Tolazoline §205.603	FT	2002 TR Y	New TR requested. Not contracted.	Scheduled for 02 02 15	
Xylazine §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	Scheduled for 02 02 15	

Other projects					
Project	**Contact**	**TR Reqst?**	**Notes**	**Vote**	**Meeting**
AQ Review Legacy summary	TF		Summary of the AQ review to date.		Disc Doc Spr 2015

* Yellow highlight indicates committee action needed

Agenda

- Approve notes from January 6, 2015
- 2017 sunsets (JR). Discuss TR sufficiency - Iodine
- Acidified Sodium Chlorite - discuss proposal/vote
- 2017 sunsets (TF). Discuss TR sufficiency (if TR is done) - Copper sulfate
- 2017 sunsets (JR). Discuss summaries - Aspirin, Lidocaine, Peracetic acid, Phosphoric acid, Procaine, Vaccines, Strychnine
- 2017 sunsets (CW). Discuss TR sufficiency (if TR is back) or possible questions - Electrolytes, Hydrogen peroxide, Vitamins. Discuss summaries/questions - Glucose, Oxytocin
- 2017 sunsets (FT). Discuss TR sufficiency/reassign - Chlorhexidine
- Adjourn

Discussion

- **Notes from** January 6, 2015 approved with one minor correction to the initials of a lead reviewer.
- **Iodine** (JR) - Members discussed the material and the TR was found sufficient.
- **Acidified Sodium Chlorite** (FT) - The group discussed the proposal and added some questions for posting. A member had a question about the format of the proposal and JR offered to send an example along with some additional comments. Another member noted that it would be helpful to read the TR for Iodine, which has a reference to acidified sodium chlorite. The LS deferred the vote to next call.
- **2017 sunsets (TF).** Discuss TR sufficiency if TR is ready - Copper sulfate. Deferred until TR is received.
- **2017 sunsets (JR).** The lead presented the following materials for discussion. Minor edits will be made and the summaries will be posted for comments at the spring 2015 NOSB meeting.
    - **Aspirin** (205.603(a)) - Approved for healthcare use to reduce inflammation. The questions that were added will be deleted as they are redundant with what is in the preamble for the first posting of the sunset materials.
    - **Lidocaine** (205.603(b)) - As a local anesthetic. Use requires a withdrawal period of 90 days after administering to livestock intended for slaughter and 7 days after administering to dairy animals. The LS will add questions for posting
    - **Procaine** (205.603(b)) - As a local anesthetic. Use requires a withdrawal period of 90 days after administering to livestock intended for slaughter and 7 days after administering to dairy animals. The LS will add questions for posting
    - **Peracetic acid** - For sanitizing facility and processing equipment. Widely used as a milder alternative to some harsher chemicals.
    - **Phosphoric acid** - Allowed as a cleaner for equipment, provided that no contact with organically managed livestock or land occurs.

- **Vaccines** - Listed at §205.105(e)), the use of excluded methods is prohibited in organic production. To date the NOSB has not recommended any vaccines made with excluded methods be added to the National List. Members further discussed the complexity of these materials and the fact that the previous work was based on a request from the NOP, whereas this work is for sunset review. Members will not include any additional questions when the material is posted for comment.
- **Strychnine** - Prohibited substance listed at §205.604. No additional information is sought.

- CW thanked Joe Dickson and Wendy Fulwider for their service, although neither one of them was able to be on the call.
- **2017 sunsets (CW)**
  - **Electrolytes** - The NOP indicated that after reviewing the draft TR they had many questions and therefore suggested that the LS delay the discussion until the TR is ready.
  - **Hydrogen peroxide** - waiting on TR. Relisted in 2012 without annotation.
  - **Vitamins** - Didn't have questions waiting on TR
  - **Glucose** - Relisted in 2010. There appears to be no new information since then, therefore the LS will post the summary without additional questions
  - **Oxytocin -** A hormone that is found to be essential. There was a 2005 TR, and previous Boards renewed the material without hesitation.
- **2017 sunsets (FT).** Chlorhexidine will be reviewed by FT and CW.
- **The meeting was adjourned**

<u>Previous LS Notes</u>
Future Call Schedule:

Jan 6, 2015 3:00 ET

2017 sunsets (TF). Discuss TR sufficiency - Ethanol, Copper sulfate - deferred to Jan 20)
2017 sunsets (FT/JD). Discuss summary - Calcium hypochlorite, Chlorine dioxide and Sodium hypochlorite
2017 sunsets (CW). Discuss TR sufficiency - Isopropanol
Acidified Sodium Chlorite (FT)- discuss proposal/vote

Jan 20, 2015 3:00 ET

- Acidified Sodium Chlorite (FT) - discuss proposal/vote - deferred
- 2017 sunsets (TF). Discuss Copper sulfate TR sufficiency if TR is ready. Discuss summary/questions for Ethanol - deferred
- 2017 sunsets (JR). Discuss summaries - Aspirin, Lidocaine, Peracetic acid, Phosphoric acid, Procaine, Vaccines, Strychnine
- 2017 sunsets (CW). Discuss TR sufficiency (if TR is back) or possible questions - Electrolytes, Hydrogen peroxide, Vitamins. Discuss summaries/questions - Glucose, Oxytocin
- 2017 sunsets (FT). Discuss TR sufficiency/reassign - Chlorhexidine - deferred to Feb 2
- 2017 sunsets (JR). Discuss TR sufficiency - Iodine

Jan 27, 2015 - additional call

- Acidified Sodium Chlorite (FT) - discuss proposal/vote
- 2017 sunsets (FT/JD). Discuss summary - Calcium hypochlorite, Chlorine dioxide and Sodium hypochlorite
- 2017 sunsets (TF). Discuss TR sufficiency (if TR is ready)/questions - Copper sulfate
- 2017 sunsets (TF). Discuss summary/questions for Ethanol
- 2017 sunsets (TF). Discuss TR sufficiency - Hydrated lime

- MET discussion/vote

Feb 2 2:00 ET. Note: this is a Monday

- MET- discuss proposal if more discussion is needed/vote
- 2017 sunsets (CW). Discuss TR sufficiency (if TR is back) or possible questions – Electrolytes, hydrogen peroxide, vitamins
- 2017 sunsets (FT). Discuss TR sufficiency - Fenbendazole, Ivermectin, Moxidectin.
  Discuss summaries - Poloxalene, Sucrose octanoate esters, Trace minerals, Tolazoline
- 2017 sunsets (FT). Discuss TR sufficiency/questions- Chlorhexidine
- 2017 sunsets (CBo). Discuss TR sufficiency - Excipients, Mineral oil.
  Discuss summaries - Butorphanol, Formic Acid, Xylazine

Feb 17, 2015 3:00 ET

- 2017 sunsets (TF). Discuss summaries - Atropine, EPA List 4 Inerts, Flunixin, Furosemide, Glycerine, Magnesium hydroxide, Magnesium sulfate, Methionine
  Zinc Sulfate - discuss TR/checklist
- AQ legacy doc follow up discussion and vote (TF). Vote on AQ Subcomm

Mar 3, 2015 3:00 ET
Mar 17, 2015 3:00 ET
Apr 7, 2015 3:00 ET
Apr 21, 2015 3:00 ET

Spring 2015 Milestones	Target date
NOSB Training	Feb 4-5, 2015
NOP - Complete Spring 2015 NOSB meeting tentative agenda	Feb 7, 2015
NOSB - Spring 2015 proposals due to NOP	Feb 25, 2015
NOP - Post proposals, Publish FRN, Open public comment	Mar 9, 2015
Discuss work agendas on ES call	Mar 13, 2015
Public comment closes	Apr 6, 2015
Work agendas finalized on ES call (last call before spring mtg)	Apr 10, 2015
NOP - Send compiled public comments to NOSB	Apr 13, 2015
Spring 2015 NOSB meeting - La Jolla, CA	Week of April 27 - 30

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy or regulations. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

National Organic Standards Board (NOSB)
Livestock/Aquaculture Subcommittee (LS) Meeting Notes
Tuesday, January 27, 2015 3:00pm ET

Attending: Tracy Favre, Chair (TF); Colehour Bondera (CBo); Jean Richardson (JR); Ashley Swaffar (AS); Francis Thicke (FT)
Absent: Paula Daniels (PD), Mac Stone (MS); Calvin Walker, Vice Chair (CW)
Staff: Michelle Arsenault (MA), Emily Brown Rosen (EBR)

Work Agenda

Petitioned Materials						
Substance	**Nat'l List §**	**Contact**	**TR requested**	**Notes**	**Vote**	**Meeting**
Methionine in organic poultry feed (MET)- petitioned	205.603	MS	2011 TR	TR received 11 15 11	Vote scheduled for 02 02 15	Proposal Spr 2015
Acidified Sodium chlorite (ASC) Petition Addendum #1 Petition Addendum #2	205.603 (a)(b)	JD/FT	2008 TR 2013 TR	Petition sent to LS 06 12 12. Petition found sufficient 09 18. TR requested on 09 18 12. TR sent to LS 05 08 13. TR found suff 07 30 13. Fall 2013 meeting cancelled. Spring 2014 sent back to LS.	01 27 15	Proposal Spr 2015
Aluminum Sulfate (PDF)	205.603	JR	Y	The petitioner requests two related allowances on the NL: (1) treatment of poultry litter (205.603) and (2) application of treated poultry litter to the field (205.601). Sent to LS 03 12 14. TR request sent to NOP 06 18 14. TR expected Jan 2015.		Proposal Spr 2015?
Sodium Bisulfate	205.603	JR	Y	Petition sent to LS 05 27 14. Q's for petitioner/TR request due 07 28 14. TR request sent to NOP 08 06 14. TR expected Jan 2015.		TBD
Zinc Sulfate	205.603	TF	Y	Petition sent to LS 06 16 14. Q's for petitioner/TR request due 8 19 14. Limited Scope TR request sent to NOP 08 06 14. TR expected mid-Jan 2015		TBD

Aquaculture-CO_2, (for aquatic plants)	205.609	TF/CBo	N	Petition sent to CS on 5 30 12. Will rqst modification from petitioner (for use pattern). Updated petition was deemed sufficient. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Chlorine (for aquatic plants)	205.609	~~JD~~/FT	2011 Crops TR 2006 TR 1995 TAP	Petition sent to CS on 5 30 12. Determine petition sufficiency. CS requested clarification from petitioner 11 20 12. 2011 TR deemed suff for this review 11 20 12. Additional aquaculture TR deemed unnecessary. Sent follow up questions to petitioner. Response deemed sufficient.	NA	Proposal TBD
Aquaculture-Micronutrients (for aquatic plants)	205.609	FT	2010 TR (Nickel) 6/2013 Minerals TR	Petition sent to CS on 06 08 12. Petition sufficiency response due 08 08 12? CS sent request to NL Mgr 12 04 12 for additional info. Questions clarified by petitioner. Petition found sufficient 06 18 13 and 07 02 13. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Lignin sulfonate (chelating agent for aquatic plants) (for aquatic plants) CAS #s 9009-75-0, 8062-15-5, 8061-51-6	205.609	JR	2/2011 Crops TR 7/2013 TR Aquatic Animals TR	Petition sent to CS on 07 03 12. Petition Sufficiency Response due 09 04 12. CS sent request to NL Mgr 12 04 12 for additional info and TR. Questions clarified by petitioner. Petition found sufficient 6 18 13 and 07 02 13.	NA	Proposal TBD
Aquaculture-Vitamins (B1, B12, H) for aquatic plants	205.609	CW	4/2013 Aquatic Animals TR	Petition sent to CS 08 10 12. Petition Sufficiency response due 10 10 12. Petition found sufficient 06 18 13.	NA	Proposal TBD

Aquaculture - Biologics: Vaccines for Aquatic Animals	205.611	JR	2011 TR (Vaccines made from GMOs)	Petition sent to LS 06 14 12. Petition found sufficient and TR requested on 05 21 13. (NOP note: TR sent to LS 01 24 14. TR deemed sufficient 02 03 14	NA	Proposal TBD
Aquaculture - Chlorine (for aquatic animals)	205.611	~~JD~~/FT	No Crops 2011 Crops 2006 Crops 1995 Livestock 2006 Handling 2006	Petition sent to LS on 05 30 12. Petition found sufficient 07 03 12. No TR requested	NA	Proposal TBD
Aquaculture – Tocopherols (for aquatic animals)	205.611	TF/CBo	2013 TR 1995 TAP rvw	Petition sent to LS on 05 30 12. Petition found sufficient 08 06 12. TR requested 08 06 12. Draft TR sent to LS on 04 16 13. TR found sufficient 06 04 13	NA	Proposal TBD
Aquaculture – Vitamins (for aquatic animals)	205.611	CW/FT	Yes 2013 TR	Petition sent to LS on 05 30 12. Response due ~07 30 12. Petition found sufficient 08 06 12. Requested joint TR with Minerals 08 06 12. TR sent to LS 04 29 13. TR found suff 06 18 13.	NA	Proposal TBD
Aquaculture - Trace Minerals (for aquatic animals)	205.611	CW/FT	2013 TR	Petition sent to LS on 06 08 12. Response due ~08 08 12. Petition found sufficient 08 06 12? Requested joint TR with Vitamins 08 06 12. TR sent to LS 06 25 13. Suff due 08 27 13. TR found sufficient 07 16 13. Fall 2013 meeting cancelled.	NA	Proposal TBD

2017 Sunsets TR Requests Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**TR requested**	**Notes**	**Summary discussion**	**Meeting**
Ethanol §205.603	TF	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	01 27 15	Summary: Spr 2015 Review: Fall 2015
Isopropanol §205.603	CW	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	01 06 15	
Chlorhexidine §205.603	~~JD~~/FT/ CW	2010 TR Y	TR requested 08 15 14. TR expected Jan/Feb 2015	Scheduled 02 02 15	

Copper sulfate §205.603	TF	1995 TAP Y Lmtd Scope	TR in development (expected Dec 2014)	Scheduled for 02 02 15	
Electrolytes §205.603	CW	1995 TAP	TR expected Jan/Feb 2015	Scheduled for 02 02 15	
Excipients §205.603	CBo	Y	TR expected Jan/Feb 2015	Scheduled for 02 02 15	
Fenbendazole §205.603	FT	1999 TR Y	Combined with other paraciticides (Moxidectin and Ivermectin). TR expected Jan/Feb 2015	Scheduled for 02 02 15	
Ivermectin §205.603	FT	1999 TR Y	Combined with other paraciticides (Fendbendazole and Moxidectin). TR expected Jan/Feb 2015	Scheduled for 02 02 15	
Moxidectin §205.603	FT	2003 TR Y	Combined with other paraciticides (Fendbendazole and Ivermectin). TR expected Jan/Feb 2015	Scheduled for 02 02 15	
Hydrated lime §205.603	TF	1995 TAP	TR expected Jan/Feb 2015	Scheduled for 02 02 15	
Hydrogen peroxide §205.603	CW	Y (for Crops 205.601(a))	TR for Crops expected Jan/Feb 2015	Scheduled for 02 02 15	
Iodine 205.603(a)(14) and 205.603 (b)(2)	JR	1994 TAP 2015 TR	TR expected Jan/Feb 2015. TR sent to LS 01 07 15. Suff due 03 06 15. TR found sufficient 01 20 15	01 20 15 and 01 27 15	
Mineral oil §205.603	CBo	2002 TR Y	TR expected Jan/Feb 2015	Scheduled for 02 02 15	
Vitamins §205.603	CW	Y Lmtd scope	TR expected Jan/Feb 2015	Scheduled for 02 02 15	

2017 Sunsets (No TRs) Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**New TR reqst?**	**Notes**	**Discussed**	**Meeting**
Aspirin §205.603	JR	N (04 01)		01 20 15	Summary: Spr 2015 Review: Fall 2015
Atropine §205.603	TF	N (06 03)		Scheduled for 02 17 15	
Butorphanol §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	Scheduled for 02 02 15	
Calcium hypochlorite §205.603	FT/~~JD~~	N (06 17)		01 06 15 and 01 27 15	
Chlorine dioxide	FT/~~JD~~	N (06 17)		01 06 15 and 01 27 15	
EPA List 4 - Inerts of Minimal Concern §205.603	TF	N (06 03)	TR for NPEs sent to CS 01 30 15. No action by LS needed.	Scheduled for 02 17 15	

Flunixin §205.603	TF	N (06 03)		Scheduled for 02 17 15	
Formic Acid §205.603	CBo	N (06 17)		Scheduled for 02 02 15	
Furosemide §205.603	TF	N (06 03)		Scheduled for 02 17 15	
Glucose §205.603	CW	N (07 01)		01 20 15	
Glycerine §205.603	TF	N (06 03)		Scheduled for 02 17 15	
Lidocaine §205.603	JR	N (04 01)		01 20 15	
Magnesium hydroxide §205.603	TF	N		Scheduled for 02 17 15	
Magnesium sulfate §205.603	TF	N		Scheduled for 02 17 15	
Methionine §205.603	TF	N		Scheduled for 02 17 15	
Oxytocin §205.603	CW	N (07 01)		01 20 15	
Peracetic acid §205.603	JR	N (04 01)		01 20 15	
Phosphoric acid §205.603	JR	N (04 01)		01 20 15	
Poloxalene §205.603	FT	N		Scheduled for 02 02 15	
Procaine §205.603	JR	N (04 01)		01 20 15	
Sodium hypochlorite §205.603	FT/JD	N (06 17)		01 06 15 and 01 27 15	
Strychnine 205.604	JR	N (04 01)		01 20 15	
Sucrose octanoate esters §205.603	FT	N		Scheduled for 02 02 15	
Trace minerals §205.603	FT	N		Scheduled for 02 02 15	
Vaccines §205.603	JR	N (04 01)		01 20 15	
Tolazoline §205.603	FT	2002 TR Y	New TR requested. Not contracted.	Scheduled for 02 02 15	
Xylazine §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	Scheduled for 02 02 15	

Other projects

Project	Contact	TR Reqst?	Notes	Vote	Meeting
AQ Review Legacy summary	TF		Summary of the AQ review to date.		Disc Doc Spr 2015

* Yellow highlight indicates committee action needed

Agenda

- Approve notes from January 20, 2015
- Acidified Sodium Chlorite (FT) - discuss proposal/vote
- 2017 sunsets (FT). Discuss summary - Calcium hypochlorite, Chlorine dioxide and Sodium hypochlorite
- 2017 sunsets (TF). Discuss summary/questions for Ethanol
- 2017 sunsets (TF). Discuss TR sufficiency - Hydrated lime
- 2017 sunsets (JR). Discuss summary/questions - Iodine
- MET discussion/vote
- Adjourn

Discussion

- **Notes from** January 20, 2015 approved with minor changes.
- **Petition: Acidified Sodium Chlorite (ASC) (FT/JR)** - JR noted that the ASC review will be helpful when discussing iodine. ASC was discussed at the spring 2014 NOSB meeting and after receiving public comment the NOSB chose to send the proposal back to Subcommittee. In addition to public comment, , additional information provided by the petitioner and new information about the use and demand of iodine and ASC in the dairy industry, the LS feels that it has adequate information to bring this material to the spring 2015 meeting for a vote. The NOP suggested some minor edits to checklist based on the narrative.

  Motion to classify Motion to classify Acidified Sodium Chlorite (CAS # 7758-19-2 (sodium chlorite) and CAS # 14998-27-7 (chlorous acid)) as synthetic.
  Motion by: JR
  Seconded by: FT
  Additional Discussion: none
  Yes: 5 No: 0 Abstain: 0 Absent: 3 Recuse: 0

  Motion to add Acidified Sodium Chlorite (CAS # 7758-19-2 (sodium chlorite) and CAS # 14998-27-7 (chlorous acid)) as synthetic as petitioned at 205.603(a) and 205.603(b) with the following annotation: Acidified Sodium Chlorite, allowed for use on organic livestock as a pre and post teat dip treatment.
  Motion by: JR
  Seconded by: FT
  Additional Discussion: One member stated his objection to the routine reliance on preventive synthetics and as such voted accordingly.
  Yes: 4 No: 1 Abstain: 0 Absent: 3 Recuse: 0

- **2017 sunsets: Chlorine Materials (Calcium hypochlorite, Chlorine dioxide and Sodium hypochlorite) (FT). The three materials were reviewed together, although the lead noted that**

he listed different modes of action. Members discussed the questions for public comment that were added to the review. Questions included whether all three of the chlorine materials were essential, and whether there were alternatives for Livestock production.

- **2017 sunsets: Ethanol (TF). Discuss summary/questions. The lead summarized the material noting that there was a** 1995 TAP report and a 2014 TR. Ethanol is a volatile, flammable, colorless, sanitizer and disinfectant. The lead will make some minor edits, add a question about the most common uses, and will forward the final document to the NOP.

- **2017 sunsets: Hydrated lime (TF). Discuss TR sufficiency** - deferred to next call because TR is not back yet.

- **2017 sunsets (JR). Iodine. The LS** discussed the TR. Iodine is common and essential in teat dips as it is very effective. A member noted that there are two primary forms but many forms exist. The LS will add questions regarding surfactants, and discussed the TR on inerts that will aid in the review of Iodine, as it will contain info on Nonylphenol Ethoxylates (NPEs) used in teat dips.

- **MET discussion/vote (ALL) deferred to next call.**

- The LS Chair reminded the members that the next call is scheduled for Monday February 2

- The LS Chair asked that any feedback on the AQ legacy Doc be sent to her by February 6

- **The meeting was adjourned**

<u>Previous LS Notes</u>

Future Call Schedule:

Jan 20, 2015 3:00 ET

- Acidified Sodium Chlorite (FT) - discuss proposal/vote - deferred
- 2017 sunsets (TF). Discuss Copper sulfate TR sufficiency if TR is ready. Discuss summary/questions for Ethanol - deferred
- 2017 sunsets (JR). Discuss summaries - Aspirin, Lidocaine, Peracetic acid, Phosphoric acid, Procaine, Vaccines, Strychnine
- 2017 sunsets (CW). Discuss TR sufficiency (if TR is back) or possible questions - Electrolytes, Hydrogen peroxide, Vitamins. Discuss summaries/questions - Glucose, Oxytocin
- 2017 sunsets (FT). Discuss TR sufficiency/reassign - Chlorhexidine - deferred to Feb 2
- 2017 sunsets (JR). Discuss TR sufficiency - Iodine

Jan 27, 2015 - additional call

- Acidified Sodium Chlorite (FT) - discuss proposal/vote
- 2017 sunsets (FT/JD). Discuss summary - Calcium hypochlorite, Chlorine dioxide and Sodium hypochlorite
- 2017 sunsets (TF). Discuss TR sufficiency (if TR is ready)/questions - Copper sulfate
- 2017 sunsets (TF). Discuss summary/questions for Ethanol
- 2017 sunsets (TF). Discuss TR sufficiency - Hydrated lime
- 2017 sunsets (JR). Discuss summary/questions - Iodine
- MET discussion/vote

Feb 2, 2015 3:00 ET. Note: this is a Monday

- MET- discuss proposal if more discussion is needed/vote
- 2017 sunsets (CW). Discuss TR sufficiency (if TR is back) or possible questions – Electrolytes, hydrogen peroxide, vitamins
- 2017 sunsets (FT). Discuss TR sufficiency - Fenbendazole, Ivermectin, Moxidectin.
  Discuss summaries - Poloxalene, Sucrose octanoate esters, Trace minerals, Tolazoline
- 2017 sunsets (FT). Discuss TR sufficiency/questions- Chlorhexidine
- 2017 sunsets (CBo). Discuss TR sufficiency - Excipients, Mineral oil.
  Discuss summaries - Butorphanol, Formic Acid, Xylazine
- 2017 sunsets (TF). Discuss TR sufficiency - Hydrated lime
- 2017 sunsets: Copper sulfate (TF). Discuss TR sufficiency (if TR is returned)

Feb 17, 2015 3:00 ET

- 2017 sunsets (TF). Discuss summaries - Atropine, EPA List 4 Inerts, Flunixin, Furosemide, Glycerine, Magnesium hydroxide, Magnesium sulfate, Methionine
  Zinc Sulfate - discuss TR/checklist

Feb 24, 2015 3:00 ET

- AQ legacy doc follow-up discussion and vote (TF). Vote

Mar 3, 2015 3:00 ET
Mar 17, 2015 3:00 ET
Apr 7, 2015 3:00 ET
Apr 21, 2015 3:00 ET

Spring 2015 Milestones	Target date
NOSB Training	Feb 4-5, 2015
NOP - Complete Spring 2015 NOSB meeting tentative agenda	Feb 7, 2015
NOSB - Spring 2015 proposals due to NOP	Feb 25, 2015
NOP - Post proposals, Publish FRN, Open public comment	Mar 9, 2015
Discuss work agendas on ES call	Mar 13, 2015
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Spring 2015 NOSB meeting - La Jolla, CA	Week of April 27 - 30

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National Organic Standards Board (NOSB)
Livestock/Aquaculture Subcommittee (LS) Meeting Notes
Tuesday, February 2, 2015 3:00pm ET

Attending: Tracy Favre, Chair (TF); Colehour Bondera (CBo); Ashley Swaffar (AS); Francis Thicke (FT); Paula Daniels (PD); Calvin Walker, Vice Chair (CW)
Absent: Jean Richardson (JR); Mac Stone (MS)
Staff: Michelle Arsenault (MA), Emily Brown Rosen (EBR)

Work Agenda

Petitioned Materials						
Substance	**Nat'l List §**	**Contact**	**TR requested**	**Notes**	**Vote**	**Meeting**
Methionine in organic poultry feed (MET)-petitioned	205.603	MS	2011 TR	TR received 11 15 11	Vote scheduled for 02 17 15	Proposal Spr 2015
Acidified Sodium chlorite (ASC) Petition Addendum #1 Petition Addendum #2	205.603 (a)(b)	JD/FT	2008 TR 2013 TR	Petition sent to LS 06 12 12. Petition found sufficient 09 18. TR requested on 09 18 12. TR sent to LS 05 08 13. TR found suff 07 30 13. Fall 2013 meeting cancelled. Spring 2014 sent back to LS.	01 27 15	Proposal Spr 2015
Aluminum Sulfate (PDF)	205.603	JR	Y	The petitioner requests two related allowances on the NL: (1) treatment of poultry litter (205.603) and (2) application of treated poultry litter to the field (205.601). Sent to LS 03 12 14. TR request sent to NOP 06 18 14. TR expected Jan 2015.		Proposal Fall 2015
Sodium Bisulfate	205.603	JR	Y	Petition sent to LS 05 27 14. Q's for petitioner/TR request due 07 28 14. TR request sent to NOP 08 06 14. TR expected Jan 2015.		TBD
Zinc Sulfate	205.603	TF	Y	Petition sent to LS 06 16 14. Q's for petitioner/TR request due 8 19 14. Limited Scope TR request sent to NOP 08 06 14. TR expected mid-Jan 2015		TBD

Aquaculture-CO_2, (for aquatic plants)	205.609	TF/CBo	N	Petition sent to CS on 5 30 12. Will rqst modification from petitioner (for use pattern). Updated petition was deemed sufficient. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Chlorine (for aquatic plants)	205.609	~~JD~~/FT	2011 Crops TR 2006 TR 1995 TAP	Petition sent to CS on 5 30 12. Determine petition sufficiency. CS requested clarification from petitioner 11 20 12. 2011 TR deemed suff for this review 11 20 12. Additional aquaculture TR deemed unnecessary. Sent follow up questions to petitioner. Response deemed sufficient.	NA	Proposal TBD
Aquaculture-Micronutrients (for aquatic plants)	205.609	FT	2010 TR (Nickel) 6/2013 Minerals TR	Petition sent to CS on 06 08 12. Petition sufficiency response due 08 08 12? CS sent request to NL Mgr 12 04 12 for additional info. Questions clarified by petitioner. Petition found sufficient 06 18 13 and 07 02 13. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Lignin sulfonate (chelating agent for aquatic plants) (for aquatic plants) CAS #s 9009-75-0, 8062-15-5, 8061-51-6	205.609	JR	2/2011 Crops TR 7/2013 TR Aquatic Animals TR	Petition sent to CS on 07 03 12. Petition Sufficiency Response due 09 04 12. CS sent request to NL Mgr 12 04 12 for additional info and TR. Questions clarified by petitioner. Petition found sufficient 6 18 13 and 07 02 13.	NA	Proposal TBD
Aquaculture-Vitamins (B1, B12, H) for aquatic plants	205.609	CW	4/2013 Aquatic Animals TR	Petition sent to CS 08 10 12. Petition Sufficiency response due 10 10 12. Petition found sufficient 06 18 13.	NA	Proposal TBD

Aquaculture - Biologics: Vaccines for Aquatic Animals	205.611	JR	2011 TR (Vaccines made from GMOs)	Petition sent to LS 06 14 12. Petition found sufficient and TR requested on 05 21 13. (NOP note: TR sent to LS 01 24 14. TR deemed sufficient 02 03 14	NA	Proposal TBD
Aquaculture - Chlorine (for aquatic animals)	205.611	~~JD~~/FT	No Crops 2011 Crops 2006 Crops 1995 Livestock 2006 Handling 2006	Petition sent to LS on 05 30 12. Petition found sufficient 07 03 12. No TR requested	NA	Proposal TBD
Aquaculture – Tocopherols (for aquatic animals)	205.611	TF/CBo	2013 TR 1995 TAP rvw	Petition sent to LS on 05 30 12. Petition found sufficient 08 06 12. TR requested 08 06 12. Draft TR sent to LS on 04 16 13. TR found sufficient 06 04 13	NA	Proposal TBD
Aquaculture – Vitamins (for aquatic animals)	205.611	CW/FT	Yes 2013 TR	Petition sent to LS on 05 30 12. Response due ~07 30 12. Petition found sufficient 08 06 12. Requested joint TR with Minerals 08 06 12. TR sent to LS 04 29 13. TR found suff 06 18 13.	NA	Proposal TBD
Aquaculture - Trace Minerals (for aquatic animals)	205.611	CW/FT	2013 TR	Petition sent to LS on 06 08 12. Response due ~08 08 12. Petition found sufficient 08 06 12? Requested joint TR with Vitamins 08 06 12. TR sent to LS 06 25 13. Suff due 08 27 13. TR found sufficient 07 16 13. Fall 2013 meeting cancelled.	NA	Proposal TBD

2017 Sunsets TR Requests Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**TR requested**	**Notes**	**Summary discussion**	**Meeting**
Ethanol §205.603	TF	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	01 27 15	Summary: Spr 2015 Review: Fall 2015
Isopropanol §205.603	CW	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	01 06 15	
Chlorhexidine §205.603	~~JD~~/FT/ CW	2010 TR Y	TR requested 08 15 14. TR expected Jan/Feb 2015	02 02 15	

Copper sulfate §205.603	TF	1995 TAP Y Lmtd Scope	TR in development (expected Dec 2014)	Rescheduled for 02 17 15	
Electrolytes §205.603	CW	1995 TAP	TR expected Jan/Feb 2015	Rescheduled for 02 17 15	
Excipients §205.603	CBo	Y	TR expected Jan/Feb 2015	Rescheduled for 02 17 15	
Fenbendazole §205.603	FT	1999 TR Y	Combined with other paraciticides (Moxidectin and Ivermectin). TR expected Jan/Feb 2015	Rescheduled for 02 17 15	
Ivermectin §205.603	FT	1999 TR Y	Combined with other paraciticides (Fendbendazole and Moxidectin). TR expected Jan/Feb 2015	Rescheduled for 02 17 15	
Moxidectin §205.603	FT	2003 TR Y	Combined with other paraciticides (Fendbendazole and Ivermectin). TR expected Jan/Feb 2015	Rescheduled for 02 17 15	
Hydrated lime §205.603	TF	1995 TAP	TR expected Jan/Feb 2015	Rescheduled for 02 17 15	
Hydrogen peroxide §205.603	CW	Y (for Crops 205.601(a))	TR for Crops expected Jan/Feb 2015	Rescheduled for 02 17 15	
Iodine 205.603(a)(14) and 205.603 (b)(2)	JR	1994 TAP 2015 TR	TR expected Jan/Feb 2015. TR sent to LS 01 07 15. Suff due 03 06 15. TR found sufficient 01 20 15	01 20 15 and 01 27 15	
Mineral oil §205.603	PD	2002 TR Y	TR expected Jan/Feb 2015	Rescheduled for 02 17 15	
Vitamins §205.603	CW	Y Lmtd scope	TR expected Jan/Feb 2015	Rescheduled for 02 17 15	

2017 Sunsets (No TRs) Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**New TR reqst?**	**Notes**	**Discussed**	**Meeting**
Aspirin §205.603	JR	N (04 01)		01 20 15	Summary: Spr 2015 Review: Fall 2015
Atropine §205.603	TF	N (06 03)		Scheduled for 02 17 15	
Butorphanol §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	Rescheduled for 02 17 15	
Calcium hypochlorite §205.603	FT/~~JD~~	N (06 17)		01 06 15 and 01 27 15	
Chlorine dioxide	FT/~~JD~~	N (06 17)		01 06 15 and 01 27 15	
EPA List 4 - Inerts of Minimal Concern §205.603	TF	N (06 03)	TR for NPEs sent to CS 01 30 15. No action by LS needed.	Scheduled for 02 17 15	

Flunixin §205.603	TF	N (06 03)		Scheduled for 02 17 15	
Formic Acid §205.603	CBo	N (06 17)		Rescheduled for 02 17 15	
Furosemide §205.603	TF	N (06 03)		Scheduled for 02 17 15	
Glucose §205.603	CW	N (07 01)		01 20 15	
Glycerine §205.603	TF	N (06 03)		Scheduled for 02 17 15	
Lidocaine §205.603	JR	N (04 01)		01 20 15	
Magnesium hydroxide §205.603	TF	N		Scheduled for 02 17 15	
Magnesium sulfate §205.603	TF	N		Scheduled for 02 17 15	
Methionine §205.603	TF	N		Scheduled for 02 17 15	
Oxytocin §205.603	CW	N (07 01)		01 20 15	
Peracetic acid §205.603	JR	N (04 01)		01 20 15	
Phosphoric acid §205.603	JR	N (04 01)		01 20 15	
Poloxalene §205.603	FT	N		02 02 15	
Procaine §205.603	JR	N (04 01)		01 20 15	
Sodium hypochlorite §205.603	FT/JD	N (06 17)		01 06 15 and 01 27 15	
Strychnine 205.604	JR	N (04 01)		01 20 15	
Sucrose octanoate esters §205.603	FT	N		02 02 15	
Trace minerals §205.603	FT	N		02 02 15	
Vaccines §205.603	JR	N (04 01)		01 20 15	
Tolazoline §205.603	FT	2002 TR Y	New TR requested. Not contracted.	02 02 15	
Xylazine §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	Rescheduled for 02 17 15	

Other projects					
Project	**Contact**	**TR Reqst?**	**Notes**	**Vote**	**Meeting**
AQ Review Legacy summary	TF		Summary of the AQ review to date.	Scheduled for 02 17	Disc Doc Spr 2015

* Yellow highlight indicates committee action needed

Agenda

- Approve notes from January 27, 2015
- MET- discuss proposal/vote
- 2017 sunsets (CW). Discuss TR sufficiency or possible questions - Electrolytes, hydrogen peroxide, vitamins
- 2017 sunsets (FT). Discuss TR sufficiency - Fenbendazole, Ivermectin, Moxidectin.
  Discuss summaries - Poloxalene, Sucrose octanoate esters, Trace minerals, Tolazoline
- 2017 sunsets (FT). Discuss TR sufficiency/questions- Chlorhexidine
- 2017 sunsets (CBo). Discuss TR sufficiency - Excipients, Mineral oil.
  Discuss summaries - Butorphanol, Formic Acid, Xylazine
- 2017 sunsets (TF). Discuss TR sufficiency - Hydrated lime
- 2017 sunsets: Copper sulfate (TF). Discuss TR sufficiency (if TR is returned)
- Adjourn

Discussion

- **Notes from** January 27, 2015 approved with minor changes.
- **MET- discuss proposal/vote.** The group discussed the most recent document and the LS Chair asked for feedback. She noted that this final version is a very reasonable approach and thanked the group for the enormous effort weighing all the comments and reaching a compromise. The Chair said that this approach is very supportive of animal welfare. She will make the final edits to the table in the proposal and the members will vote on the next call.
- **2017 sunsets (CW). Electrolytes, hydrogen peroxide, vitamins** - Deferred to next call
- **2017 sunsets (FT):**
  - **Fenbendazole** - TR sufficiency deferred to next call
  - **Ivermectin** - Deferred to next call
  - **Moxidectin** - Deferred to next call
    Poloxalene - Used as a remedy for bloating. The LS will not pose additional questions
  - **Sucrose octanoate esters.** No additional questions will be included
  - **Trace minerals** - No additional questions will be included
  - **Tolazoline -** EBR will forward the FR notice for 2007 addition of medications to the National List, which explains the reasoning behind the withdrawal times.
  - **Chlorhexidine.** Synthetic. NOP noted a recent change to the annotation so chlorhexidine is used as surgical treatment, not only in emergencies. It also is a teat dip. The LS will add questions about use patterns and essentiality.
- **2017 sunsets (CBo). Excipients, Mineral oil - Discuss TR sufficiency.** Deferred to next call. The NOP suggested separating excipients and mineral oil, as excipients is a very dense review. CBo will review excipients and PD will review mineral oil.
- **2017 sunsets (CBo) Butorphanol, Formic Acid, Xylazine - Discuss summaries.** Deferred to next call
- **2017 sunsets (TF). Hydrated lime** Deferred to next call

- **2017 sunsets: Copper sulfate (TF).** Deferred to next call
- **The meeting was adjourned**

<u>Previous LS Notes</u>

Future Call Schedule:

Jan 27, 2015 - additional call

- Acidified Sodium Chlorite (FT) - discuss proposal/vote
- 2017 sunsets (FT/JD). Discuss summary - Calcium hypochlorite, Chlorine dioxide and Sodium hypochlorite
- 2017 sunsets (TF). Discuss TR sufficiency (if TR is ready)/questions - Copper sulfate
- 2017 sunsets (TF). Discuss summary/questions for Ethanol
- 2017 sunsets (TF). Discuss TR sufficiency - Hydrated lime
- 2017 sunsets (JR). Discuss summary/questions - Iodine
- MET discussion/vote

Feb 2, 2015 3:00 ET. Note: this is a Monday

- MET- discuss proposal if more discussion is needed/vote
- 2017 sunsets (CW). Discuss TR sufficiency (if TR is back) or possible questions – Electrolytes, hydrogen peroxide, vitamins
- 2017 sunsets (FT). Discuss TR sufficiency - Fenbendazole, Ivermectin, Moxidectin.
  Discuss summaries - Poloxalene, Sucrose octanoate esters, Trace minerals, Tolazoline
- 2017 sunsets (FT). Discuss TR sufficiency/questions- Chlorhexidine
- 2017 sunsets (CBo). Discuss TR sufficiency - Excipients, Mineral oil.
  Discuss summaries - Butorphanol, Formic Acid, Xylazine
- 2017 sunsets (TF). Discuss TR sufficiency - Hydrated lime
- 2017 sunsets: Copper sulfate (TF). Discuss TR sufficiency (if TR is returned)

Feb 17, 2015 3:00 ET

- 2017 sunsets (CW). Discuss TR sufficiency (if TR is back) or possible questions - Electrolytes, hydrogen peroxide, Vitamins
- 2017 sunsets (FT). Discuss TR sufficiency - Fenbendazole, Ivermectin, Moxidectin.
- 2017 sunsets (FT). Discuss TR sufficiency/continue discussion about questions - Chlorhexidine
- 2017 sunsets (CBo). Discuss TR sufficiency (if TR was received) - Excipients
- 2017 sunsets (PD). Discuss TR sufficiency (if TR was received) - Mineral oil
- 2017 sunsets (CBo). Discuss summaries - Butorphanol, Formic Acid, Xylazine
- 2017 sunsets (TF). Discuss TR sufficiency - Hydrated lime
- 2017 sunsets: Copper sulfate (TF). Discuss TR sufficiency (if TR is returned)
- 2017 sunsets (TF). Discuss summaries - Atropine, EPA List 4 Inerts, Flunixin, Furosemide, Glycerine, Magnesium hydroxide, Magnesium sulfate, Methionine
  Zinc Sulfate - discuss TR/checklist
- MET- discuss proposal/vote

Feb 24, 2015 3:00 ET

- AQ legacy doc follow-up discussion and vote (TF). Vote

Mar 3, 2015 3:00 ET

Mar 17, 2015 3:00 ET

Apr 7, 2015 3:00 ET

Apr 21, 2015 3:00 ET

Spring 2015 Milestones	Target date
NOSB Training	Feb 4-5, 2015
NOP - Complete Spring 2015 NOSB meeting tentative agenda	Feb 7, 2015
NOSB - Spring 2015 proposals due to NOP	Feb 25, 2015
NOP - Post proposals, Publish FRN, Open public comment	Mar 9, 2015
Discuss work agendas on ES call	Mar 13, 2015
Public comment closes	Apr 6, 2015
Work agendas finalized on ES call (last call before spring mtg)	Apr 10, 2015
NOP - Send compiled public comments to NOSB	Apr 13, 2015
Spring 2015 NOSB meeting - La Jolla, CA	Week of April 27 - 30

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy or regulations. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

National Organic Standards Board (NOSB)
Livestock/Aquaculture Subcommittee (LS) Meeting Notes
Tuesday, February 17, 2015 3:00pm ET

Attending: Tracy Favre, Chair (TF); Colehour Bondera (CBo); Ashley Swaffar (AS); Francis Thicke (FT); Paula Daniels (PD); Calvin Walker, Vice Chair (CW); Jean Richardson (JR); Mac Stone (MS)
Absent: none
Staff: Michelle Arsenault (MA), Emily Brown Rosen (EBR)

Work Agenda

Petitioned Materials						
Substance	**Nat'l List §**	**Contact**	**TR requested**	**Notes**	**Vote**	**Meeting**
Methionine in organic poultry feed (MET)-petitioned	205.603	MS	2011 TR	TR received 11 15 11	02 17 15	Proposal Spr 2015
Acidified Sodium chlorite (ASC) Petition Addendum #1 Petition Addendum #2	205.603 (a)(b)	JD/FT	2008 TR 2013 TR	Petition sent to LS 06 12 12. Petition found sufficient 09 18. TR requested on 09 18 12. TR sent to LS 05 08 13. TR found suff 07 30 13. Fall 2013 meeting cancelled. Spring 2014 sent back to LS.	01 27 15	Proposal Spr 2015
Aluminum Sulfate (PDF)	205.603	JR	Y	The petitioner requests two related allowances on the NL: (1) treatment of poultry litter (205.603) and (2) application of treated poultry litter to the field (205.601). Sent to LS 03 12 14. TR request sent to NOP 06 18 14. TR expected Jan 2015.		Proposal Fall 2015
Sodium Bisulfate	205.603	JR	Y	Petition sent to LS 05 27 14. Q's for petitioner/TR request due 07 28 14. TR request sent to NOP 08 06 14. TR expected Jan 2015.		TBD
Zinc Sulfate	205.603	TF	Y	Petition sent to LS 06 16 14. Q's for petitioner/TR request due 8 19 14. Limited Scope TR request sent to NOP 08 06 14. TR expected mid-Jan 2015		TBD

Aquaculture-CO_2, (for aquatic plants)	205.609	TF/CBo	N	Petition sent to CS on 5 30 12. Will rqst modification from petitioner (for use pattern). Updated petition was deemed sufficient. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Chlorine (for aquatic plants)	205.609	~~JD~~/FT	2011 Crops TR 2006 TR 1995 TAP	Petition sent to CS on 5 30 12. Determine petition sufficiency. CS requested clarification from petitioner 11 20 12. 2011 TR deemed suff for this review 11 20 12. Additional aquaculture TR deemed unnecessary. Sent follow up questions to petitioner. Response deemed sufficient.	NA	Proposal TBD
Aquaculture-Micronutrients (for aquatic plants)	205.609	FT	2010 TR (Nickel) 6/2013 Minerals TR	Petition sent to CS on 06 08 12. Petition sufficiency response due 08 08 12? CS sent request to NL Mgr 12 04 12 for additional info. Questions clarified by petitioner. Petition found sufficient 06 18 13 and 07 02 13. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Lignin sulfonate (chelating agent for aquatic plants) (for aquatic plants) CAS #s 9009-75-0, 8062-15-5, 8061-51-6	205.609	JR	2/2011 Crops TR 7/2013 TR Aquatic Animals TR	Petition sent to CS on 07 03 12. Petition Sufficiency Response due 09 04 12. CS sent request to NL Mgr 12 04 12 for additional info and TR. Questions clarified by petitioner. Petition found sufficient 6 18 13 and 07 02 13.	NA	Proposal TBD
Aquaculture-Vitamins (B1, B12, H) for aquatic plants	205.609	CW	4/2013 Aquatic Animals TR	Petition sent to CS 08 10 12. Petition Sufficiency response due 10 10 12. Petition found sufficient 06 18 13.	NA	Proposal TBD

Aquaculture - Biologics: Vaccines for Aquatic Animals	205.611	JR	2011 TR (Vaccines made from GMOs)	Petition sent to LS 06 14 12. Petition found sufficient and TR requested on 05 21 13. (NOP note: TR sent to LS 01 24 14. TR deemed sufficient 02 03 14	NA	Proposal TBD
Aquaculture - Chlorine (for aquatic animals)	205.611	~~JD~~/FT	No Crops 2011 Crops 2006 Crops 1995 Livestock 2006 Handling 2006	Petition sent to LS on 05 30 12. Petition found sufficient 07 03 12. No TR requested	NA	Proposal TBD
Aquaculture – Tocopherols (for aquatic animals)	205.611	TF/CBo	2013 TR 1995 TAP rvw	Petition sent to LS on 05 30 12. Petition found sufficient 08 06 12. TR requested 08 06 12. Draft TR sent to LS on 04 16 13. TR found sufficient 06 04 13	NA	Proposal TBD
Aquaculture – Vitamins (for aquatic animals)	205.611	CW/FT	Yes 2013 TR	Petition sent to LS on 05 30 12. Response due ~07 30 12. Petition found sufficient 08 06 12. Requested joint TR with Minerals 08 06 12. TR sent to LS 04 29 13. TR found suff 06 18 13.	NA	Proposal TBD
Aquaculture - Trace Minerals (for aquatic animals)	205.611	CW/FT	2013 TR	Petition sent to LS on 06 08 12. Response due ~08 08 12. Petition found sufficient 08 06 12? Requested joint TR with Vitamins 08 06 12. TR sent to LS 06 25 13. Suff due 08 27 13. TR found sufficient 07 16 13. Fall 2013 meeting cancelled.	NA	Proposal TBD

2017 Sunsets TR Requests Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**TR requested**	**Notes**	**Summary discussion**	**Meeting**
Ethanol §205.603	TF	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	01 27 15	Summary: Spr 2015 Review: Fall 2015
Isopropanol §205.603	CW	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	01 06 15	
Chlorhexidine §205.603	~~JD~~/FT/ CW	2010 TR Y	TR requested 08 15 14. TR expected Jan/Feb 2015	02 02 15	

Copper sulfate §205.603	TF	1995 TAP Y Lmtd Scope	TR in development (expected Dec 2014). TR sent to LS 02 13 15. Suff due 03 06 15. TR found suff 02 17 15	Rescheduled for 02 24 15	
Electrolytes §205.603	CW	1995 TAP	TR expected Jan/Feb 2015	Rescheduled for 02 24 15	
Excipients §205.603	~~CBo~~/JR	Y	TR expected Jan/Feb 2015	Rescheduled for 02 24 15	
Fenbendazole §205.603	FT	1999 TR Y	Combined with other paraciticides (Moxidectin and Ivermectin). TR expected Jan/Feb 2015	Rescheduled for 02 24 15	
Ivermectin §205.603	FT	1999 TR Y	Combined with other paraciticides (Fendbendazole and Moxidectin). TR expected Jan/Feb 2015	Rescheduled for 02 24 15	
Moxidectin §205.603	FT	2003 TR Y	Combined with other paraciticides (Fendbendazole and Ivermectin). TR expected Jan/Feb 2015	Rescheduled for 02 24 15	
Hydrated lime §205.603	TF	1995 TAP	TR expected Jan/Feb 2015	Rescheduled for 02 24 15	
Hydrogen peroxide §205.603	CW	Y (for Crops 205.601(a))	TR for Crops expected Jan/Feb 2015	Rescheduled for 02 24 15	
Iodine 205.603(a)(14) and 205.603 (b)(2)	JR	1994 TAP 2015 TR	TR expected Jan/Feb 2015. TR sent to LS 01 07 15. Suff due 03 06 15. TR found sufficient 01 20 15	01 20 15 and 01 27 15	
Mineral oil §205.603	PD	2002 TR Y	TR expected Jan/Feb 2015	02 17 15	
Vitamins §205.603	CW	Y Lmtd scope	TR expected Jan/Feb 2015	Rescheduled for 02 24 15	

2017 Sunsets (No TRs) Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**New TR reqst?**	**Notes**	**Discussed**	**Meeting**
Aspirin §205.603	JR	N (04 01)		01 20 15	Summary: Spr 2015 Review: Fall 2015
Atropine §205.603	TF	N (06 03)		02 17 15	
Butorphanol §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	Rescheduled for 02 24 15	
Calcium hypochlorite §205.603	FT/~~JD~~	N (06 17)		01 06 15 and 01 27 15	
Chlorine dioxide	FT/~~JD~~	N (06 17)		01 06 15 and 01 27 15	
EPA List 4 - Inerts of Minimal Concern §205.603	TF	N (06 03)	TR for NPEs sent to CS 01 30 15. No action by LS needed.	02 17 15	

Flunixin §205.603	TF	N (06 03)		02 17 15	
Formic Acid §205.603	CBo	N (06 17)		02 17 15	
Furosemide §205.603	TF	N (06 03)		02 17 15	
Glucose §205.603	CW	N (07 01)		01 20 15	
Glycerine §205.603	TF	N (06 03)		02 17 15	
Lidocaine §205.603	JR	N (04 01)		01 20 15	
Magnesium hydroxide §205.603	TF	N		02 17 15	
Magnesium sulfate §205.603	TF	N		02 17 15	
Methionine §205.603	TF	N		02 17 15	
Oxytocin §205.603	CW	N (07 01)		01 20 15	
Peracetic acid §205.603	JR	N (04 01)		01 20 15	
Phosphoric acid §205.603	JR	N (04 01)		01 20 15	
Poloxalene §205.603	FT	N		02 02 15	
Procaine §205.603	JR	N (04 01)		01 20 15	
Sodium hypochlorite §205.603	FT/JD	N (06 17)		01 06 15 and 01 27 15	
Strychnine 205.604	JR	N (04 01)		01 20 15	
Sucrose octanoate esters §205.603	FT	N		02 02 15	
Trace minerals §205.603	FT	N		02 02 15	
Vaccines §205.603	JR	N (04 01)		01 20 15	
Tolazoline §205.603	FT	2002 TR Y	New TR requested. Not contracted.	02 02 15	
Xylazine §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	02 17 15	

Other projects

Project	Contact	TR Reqst?	Notes	Vote	Meeting
AQ Review Legacy summary	TF		Summary of the AQ review to date.	Scheduled for 02 24	Disc Doc Spr 2015

* Yellow highlight indicates committee action needed

Agenda

- Approve notes from February 2, 2015
- 2017 sunsets (CW). Discuss TR sufficiency (if TR is back) or possible questions - Electrolytes, hydrogen peroxide, Vitamins
- 2017 sunsets (FT). Discuss TR sufficiency - Fenbendazole, Ivermectin, Moxidectin.
- 2017 sunsets (FT). Discuss TR sufficiency/continue discussion about questions - Chlorhexidine
- 2017 sunsets (JR). Discuss TR sufficiency (if TR was received) - Excipients
- 2017 sunsets (PD). Discuss TR sufficiency (if TR was received) - Mineral oil. 2017 sunsets (CBo). Discuss summaries - Butorphanol, Formic Acid, Xylazine
- 2017 sunsets (TF). Discuss TR sufficiency - Hydrated lime
- 2017 sunsets: Copper sulfate (TF). Discuss TR sufficiency.
- 2017 sunsets (TF). Discuss summaries - Atropine, EPA List 4 Inerts, Flunixin, Furosemide, Glycerine, Magnesium hydroxide, Magnesium sulfate, Methionine
- Zinc Sulfate - discuss TR/checklist
- MET- discuss proposal/vote
- Adjourn

Discussion

- **Notes from** February 2, 2015 were approved with some minor clarifications to the future schedule.
- **2017 sunsets (CW). Electrolytes, hydrogen peroxide, Vitamins. No TR yet.** Will defer conversation to next call.
- **2017 sunsets (FT). Fenbendazole, Ivermectin, Moxidectin**. No TRs yet. Will defer conversation to next call.
- **2017 sunsets (FT). Chlorhexidine**. The group finalized the discussion about usage and will add questions pertaining to this
- **2017 sunsets (CBo). Excipients**. 205.603(f). Category of excipients is large and complex. The materials under the excipients umbrella that are allowed in organic are those that are FDA approved. The NOP noted that there are thousands of excipients and it is not realistic for the NOSB to review each one individually. The lead feels that the TR could influence the type of questions the LS would ask.
- **2017 sunsets (PD). Mineral oil**. Topical lubricant. TR is in development. The LS will add questions to seek info about compatibility and alternatives.
- **2017 sunsets (CBo). Butorphanol**: Used as a pain medication. The group discussed the use of this material during gestation, and the NOP noted that the label may already restrict the administration of these drugs during pregnancy. The LS will continue the discussion on the next call about potential questions for the posting.
- **2017 sunsets (CBo). Formic Acid**: For use within honeybee hives. Synthetic. Less toxic that other methods. The LS will add questions for posting.
- **2017 sunsets (CBo). Xylazine:** Xylazine was reviewed in combination with Tolazoline as they are used together. The LS will add several questions regarding alternatives.
- **2017 sunsets (TF). Hydrated lime**. TR sufficiency discussion deferred to next call
- **2017 sunsets (TF). Copper sulfate**. The lead briefly summarized the TR. It was found it sufficient and the LS will discuss the summary on next call.

- **2017 sunsets (TF).** Will add questions to some of the summaries for posting.
    - **Atropine** - Federal law restricts use by lawful written or oral order of a licensed veterinarian. A 2003 NOSB recommendation found it safe and compatible with a system of organic livestock production. The LS will add questions for public comment, regarding use as pre-anesthesia and eye treatments.
    - **EPA List 4 Inerts** - Complex and large topic. The NOSB will be working with the EPA's Design for the Environment (DfE) and NOP to move this forward. There is a webinar scheduled for the end of March and the EPA will also present at the spring 2015 NOSB meeting.
    - **Flunixin**. The LS will add a question about essentiality and implications if it is removed.
    - **Furosemide**. No additional questions
    - **Glycerine**. Allowed as a livestock teat dip, must be produced through hydrolysis of fats or oils. No additional questions
    - **Magnesium hydroxide**. Currently listed with extensive restrictive annotation. No additional questions.
    - **Magnesium sulfate**. This material has a number of veterinary uses. No additional questions.
    - **Methionine** - Feed additive. MET was also petitioned and the LS is bringing for a proposal to the spring meeting. The LS will include a question in the sunset posting asking about the impacts of the annotation that they are proposing.
- **Zinc Sulfate** - discuss TR/checklist - Deferred to next call
- **MET**- finalize proposal/vote

Motion to accept the proposal on MET.
DL–Methionine, DL–Methionine—hydroxy analog, and DL–Methionine—hydroxy analog calcium (CAS #'s 59-51-8, 583-91-5, 4857-44-7, and 922-50-9)—for use only in organic poultry production at the following pounds of synthetic 100% Methionine per ton of feed in the diet, averaged over the life of the flock: Laying chickens – 2 pounds; Broiler chickens – 2.5 pounds; Turkeys and all other poultry – 3 pounds.

Motion by: TF
Seconded by: JR
Additional Discussion: AS stated that she uses this product and she, as well as the rest of the Subcommittee and the NOP, feels this does not constitute a Conflict of Interest
Yes: 6 No: 2 Abstain: 0 Absent: 0 Recuse: 0
Motion carries

Motion to accept the following resolution: The National Organic Standards Board is committed to the phase-out of synthetic methionine for organic poultry production, and encourages aggressive research on natural sources of methionine, as well as research into breeding poultry that perform well on less methionine.
Motion by: TF
Seconded by: CBo
Yes: 8 No: 0 Abstain: 0 Absent:0 Recuse: 0
Motion carries

CBo will add a minority opinion to the proposal, and will send to the Chair by Friday, Feb 20

- **The meeting was adjourned**

Previous LS Notes

Future Call Schedule:

Feb 2, 2015 3:00 ET. Note: this is a Monday

- MET- discuss proposal if more discussion is needed/vote
- 2017 sunsets (CW). Discuss TR sufficiency (if TR is back) or possible questions – Electrolytes, hydrogen peroxide, vitamins
- 2017 sunsets (FT). Discuss TR sufficiency - Fenbendazole, Ivermectin, Moxidectin. Discuss summaries - Poloxalene, Sucrose octanoate esters, Trace minerals, Tolazoline
- 2017 sunsets (FT). Discuss TR sufficiency/questions- Chlorhexidine
- 2017 sunsets (CBo). Discuss TR sufficiency - Excipients, Mineral oil. Discuss summaries - Butorphanol, Formic Acid, Xylazine
- 2017 sunsets (TF). Discuss TR sufficiency - Hydrated lime
- 2017 sunsets: Copper sulfate (TF). Discuss TR sufficiency (if TR is returned)

Feb 17, 2015 3:00 ET

- 2017 sunsets (CW). Discuss TR sufficiency (if TR is back) or possible questions - Electrolytes, hydrogen peroxide, Vitamins. Deferred to next call
- 2017 sunsets (FT). Discuss TR sufficiency - Fenbendazole, Ivermectin, Moxidectin. Deferred to next call
- 2017 sunsets (FT). Continue discussion of Tolazoline. Completed Feb 2
- 2017 sunsets (FT). Discuss TR sufficiency/continue discussion about questions – Chlorhexidine. Completed
- 2017 sunsets (JR). Discuss TR sufficiency (if TR was received) – Excipients.
- 2017 sunsets (PD). Discuss TR sufficiency (if TR was received) - Mineral oil - Completed
- 2017 sunsets (CBo). Discuss summaries - Butorphanol, Formic Acid, Xylazine - Completed (will continue Butorphanol on next call)
- 2017 sunsets (TF). Discuss TR sufficiency - Hydrated lime. Deferred to next call
- 2017 sunsets: Copper sulfate (TF). Discuss TR sufficiency. Deferred to next call
- 2017 sunsets (TF). Discuss summaries - completed
    - Atropine.
    - EPA List 4 Inerts
    - Flunixin
    - Furosemide
    - Glycerine
    - Magnesium hydroxide
    - Magnesium sulfate
    - Methionine
- Zinc Sulfate - discuss TR/checklist. Deferred to next call
- MET- discuss proposal/vote- completed

Feb 24, 2015 3:00 ET

- 2017 sunsets (CBo). Butorphanol. Continue discussion of questions for summary.
- 2017 sunsets (TF). Discuss TR sufficiency - Hydrated lime.
- 2017 sunsets (CW). Discuss TR sufficiency (if TR is back) or possible questions - Electrolytes, hydrogen peroxide, Vitamins
- 2017 sunsets (FT). Discuss TR sufficiency - Fenbendazole, Ivermectin, Moxidectin.
- AQ legacy doc follow-up discussion and vote (TF). Vote

- 2017 sunsets (JR). Excipients Discuss TR sufficiency (if TR was received)
- 2017 sunsets: Copper sulfate (TF). Discuss summary.
- Zinc Sulfate - discuss TR/checklist

Mar 3, 2015 3:00 ET
Mar 17, 2015 3:00 ET
Apr 7, 2015 3:00 ET
Apr 21, 2015 3:00 ET

Spring 2015 Milestones	Target date
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Spring 2015 NOSB meeting - La Jolla, CA	Week of April 27 - 30

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National Organic Standards Board (NOSB)
Livestock/Aquaculture Subcommittee (LS) Meeting Notes
Tuesday, February 24, 2015 3:00pm ET

Attending: Tracy Favre, Chair (TF); Colehour Bondera (CBo); Ashley Swaffar (AS); Francis Thicke (FT); Paula Daniels (PD); Calvin Walker, Vice Chair (CW); Jean Richardson (JR); Harold Austin (HA) - sitting in
Absent: Mac Stone (MS)
Staff: Michelle Arsenault (MA), Emily Brown Rosen (EBR)

Work Agenda

Petitioned Materials						
Substance	**Nat'l List §**	**Contact**	**TR requested**	**Notes**	**Vote**	**Meeting**
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Acidified Sodium chlorite (ASC) Petition Addendum #1 Petition Addendum #2	205.603 (a)(b)	JD/FT	2008 TR 2013 TR	Petition sent to LS 06 12 12. Petition found sufficient 09 18. TR requested on 09 18 12. TR sent to LS 05 08 13. TR found suff 07 30 13. Fall 2013 meeting cancelled. Spring 2014 sent back to LS.	01 27 15	Proposal Spr 2015
Aluminum Sulfate (PDF)	205.603	JR	Y	The petitioner requests two related allowances on the NL: (1) treatment of poultry litter (205.603) and (2) application of treated poultry litter to the field (205.601). Sent to LS 03 12 14. TR request sent to NOP 06 18 14. TR expected Jan 2015.		Proposal Fall 2015
Sodium Bisulfate	205.603	JR	Y	Petition sent to LS 05 27 14. Q's for petitioner/TR request due 07 28 14. TR request sent to NOP 08 06 14. TR expected Jan 2015.		TBD
Zinc Sulfate	205.603	TF	2015	Petition sent to LS 06 16 14. Q's for petitioner/TR request due 8 19 14. Limited Scope TR request sent to NOP 08 06 14. TR expected mid-Jan 2015. TR sent to LS 02 09 15. Suff due 04 10 15. TR found suff 02 24 15	02 24 15	Fall 2015

Aquaculture-CO_2, (for aquatic plants)	205.609	TF/CBo	N	Petition sent to CS on 5 30 12. Will rqst modification from petitioner (for use pattern). Updated petition was deemed sufficient. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Chlorine (for aquatic plants)	205.609	~~JD~~/FT	2011 Crops TR 2006 TR 1995 TAP	Petition sent to CS on 5 30 12. Determine petition sufficiency. CS requested clarification from petitioner 11 20 12. 2011 TR deemed suff for this review 11 20 12. Additional aquaculture TR deemed unnecessary. Sent follow up questions to petitioner. Response deemed sufficient.	NA	Proposal TBD
Aquaculture-Micronutrients (for aquatic plants)	205.609	FT	2010 TR (Nickel) 6/2013 Minerals TR	Petition sent to CS on 06 08 12. Petition sufficiency response due 08 08 12? CS sent request to NL Mgr 12 04 12 for additional info. Questions clarified by petitioner. Petition found sufficient 06 18 13 and 07 02 13. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Lignin sulfonate (chelating agent for aquatic plants) (for aquatic plants) CAS #s 9009-75-0, 8062-15-5, 8061-51-6	205.609	JR	2/2011 Crops TR 7/2013 TR Aquatic Animals TR	Petition sent to CS on 07 03 12. Petition Sufficiency Response due 09 04 12. CS sent request to NL Mgr 12 04 12 for additional info and TR. Questions clarified by petitioner. Petition found sufficient 6 18 13 and 07 02 13.	NA	Proposal TBD
Aquaculture-Vitamins (B1, B12, H) for aquatic plants	205.609	CW	4/2013 Aquatic Animals TR	Petition sent to CS 08 10 12. Petition Sufficiency response due 10 10 12. Petition found sufficient 06 18 13.	NA	Proposal TBD

Aquaculture - Biologics: Vaccines for Aquatic Animals	205.611	JR	2011 TR (Vaccines made from GMOs)	Petition sent to LS 06 14 12. Petition found sufficient and TR requested on 05 21 13. (NOP note: TR sent to LS 01 24 14. TR deemed sufficient 02 03 14	NA	Proposal TBD
Aquaculture - Chlorine (for aquatic animals)	205.611	~~JD~~/FT	No Crops 2011 Crops 2006 Crops 1995 Livestock 2006 Handling 2006	Petition sent to LS on 05 30 12. Petition found sufficient 07 03 12. No TR requested	NA	Proposal TBD
Aquaculture – Tocopherols (for aquatic animals)	205.611	TF/CBo	2013 TR 1995 TAP rvw	Petition sent to LS on 05 30 12. Petition found sufficient 08 06 12. TR requested 08 06 12. Draft TR sent to LS on 04 16 13. TR found sufficient 06 04 13	NA	Proposal TBD
Aquaculture – Vitamins (for aquatic animals)	205.611	CW/FT	Yes 2013 TR	Petition sent to LS on 05 30 12. Response due ~07 30 12. Petition found sufficient 08 06 12. Requested joint TR with Minerals 08 06 12. TR sent to LS 04 29 13. TR found suff 06 18 13.	NA	Proposal TBD
Aquaculture - Trace Minerals (for aquatic animals)	205.611	CW/FT	2013 TR	Petition sent to LS on 06 08 12. Response due ~08 08 12. Petition found sufficient 08 06 12? Requested joint TR with Vitamins 08 06 12. TR sent to LS 06 25 13. Suff due 08 27 13. TR found sufficient 07 16 13. Fall 2013 meeting cancelled.	NA	Proposal TBD

2017 Sunsets TR Requests Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**TR requested**	**Notes**	**Summary discussion**	**Meeting**
Ethanol §205.603	TF	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	01 27 15	Summary: Spr 2015 Review: Fall 2015
Isopropanol §205.603	CW	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	01 06 15	
Chlorhexidine §205.603	~~JD~~/FT/ CW	2010 TR Y	TR requested 08 15 14. TR expected Jan/Feb 2015. TR sent to LS 02 26 15. Suff due 03 06 15	02 02 15	

Copper sulfate §205.603	TF	1995 TAP 2015 Lmtd Scope	TR in development (expected Dec 2014). TR sent to LS 02 13 15. Suff due 03 06 15. TR found suff 02 17 15	02 24 15	
Electrolytes §205.603	CW	1995 TAP	TR expected Jan/Feb 2015	02 24 15	
Excipients §205.603	~~CBo~~/JR	Y	TR expected Jan/Feb 2015. TR sent to LS 02 26 15. Suff due 03 06 15	02 24 15	
Fenbendazole §205.603	FT	1999 TR Y	Combined with other paraciticides (Moxidectin and Ivermectin). TR expected Jan/Feb 2015	02 24 15	
Ivermectin §205.603	FT	1999 TR Y	Combined with other paraciticides (Fendbendazole and Moxidectin). TR expected Jan/Feb 2015	02 24 15	
Moxidectin §205.603	FT	2003 TR Y	Combined with other paraciticides (Fendbendazole and Ivermectin). TR expected Jan/Feb 2015	02 24 15	
Hydrated lime §205.603(b)	TF	1995 TAP	TR expected Jan/Feb 2015	02 24 15	
Hydrogen peroxide §205.603(a)	CW	Y (for Crops 205.601(a))	TR for Crops expected Jan/Feb 2015	02 24 15	
Iodine 205.603(a)(14) and 205.603(b)(2)	JR	1994 TAP 2015 TR	TR expected Jan/Feb 2015. TR sent to LS 01 07 15. Suff due 03 06 15. TR found sufficient 01 20 15	01 20 15 and 01 27 15	
Mineral oil §205.603	PD	2002 TR Y	TR expected Jan/Feb 2015	02 17 15	
Vitamins §205.603(d)	CW	Y Lmtd scope	TR expected Jan/Feb 2015	02 24 15	

2017 Sunsets (No TRs) Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**New TR reqst?**	**Notes**	**Discussed**	**Meeting**
Aspirin §205.603	JR	N (04 01)		01 20 15	Summary: Spr 2015 Review: Fall 2015
Atropine §205.603	TF	N (06 03)		02 17 15	
Butorphanol §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	02 24 15	
Calcium hypochlorite §205.603	FT/~~JD~~	N (06 17)		01 06 15 and 01 27 15	
Chlorine dioxide	FT/~~JD~~	N (06 17)		01 06 15 & 01 27 15	
EPA List 4 - Inerts of Minimal Concern §205.603	TF	N (06 03)	TR for NPEs sent to CS 01 30 15. No action by LS needed.	02 17 15	

Flunixin §205.603	TF	N (06 03)		02 17 15	
Formic Acid §205.603	CBo	N (06 17)		02 17 15	
Furosemide §205.603	TF	N (06 03)		02 17 15	
Glucose §205.603	CW	N (07 01)		01 20 15	
Glycerine §205.603	TF	N (06 03)		02 17 15	
Lidocaine §205.603	JR	N (04 01)		01 20 15	
Magnesium hydroxide §205.603	TF	N		02 17 15	
Magnesium sulfate §205.603	TF	N		02 17 15	
Methionine §205.603	TF	N		02 17 15	
Oxytocin §205.603	CW	N (07 01)		01 20 15	
Peracetic acid §205.603	JR	N (04 01)		01 20 15	
Phosphoric acid §205.603	JR	N (04 01)		01 20 15	
Poloxalene §205.603	FT	N		02 02 15	
Procaine §205.603	JR	N (04 01)		01 20 15	
Sodium hypochlorite §205.603	FT/JD	N (06 17)		01 06 15 and 01 27 15	
Strychnine 205.604	JR	N (04 01)		01 20 15	
Sucrose octanoate esters §205.603	FT	N		02 02 15	
Trace minerals §205.603	FT	N		02 02 15	
Vaccines §205.603	JR	N (04 01)		01 20 15	
Tolazoline §205.603	FT	2002 TR Y	New TR requested. Not contracted.	02 02 15	
Xylazine §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	02 17 15	

Other projects

Project	Contact	TR Reqst?	Notes	Vote	Meeting
AQ Review Legacy summary	TF		Summary of the AQ review to date.	02 24 15	Report Spr 2015

* Yellow highlight indicates committee action needed

Agenda

- Approve notes from February 17, 2015
- 2017 sunsets (CBo). Butorphanol. Continue discussion of questions for summary.
- 2017 sunsets (TF). Discuss TR sufficiency - Hydrated lime.
- 2017 sunsets (CW). Discuss TR sufficiency (if TR is back) or possible questions - Electrolytes, hydrogen peroxide, Vitamins
- 2017 sunsets (FT). Discuss TR sufficiency - Fenbendazole, Ivermectin, Moxidectin.
- AQ legacy doc follow-up discussion and vote (TF). Vote
- 2017 sunsets (JR). Excipients Discuss TR sufficiency (if TR was received)
- 2017 sunsets: Copper sulfate (TF). Discuss summary.
- Zinc Sulfate (TF) - discuss TR/checklist
- Adjourn

Discussion

- **Notes from** February 17, 2015 were approved with one clarification to the notes about Tolazoline/Xylazine.
- **2017 sunsets (CBo). Butorphanol.** LS will add several questions to the posting.
- **2017 sunsets (TF). Hydrated lime.** Waiting for TR. There are some environmental concerns about soil compaction and inhalation.
- **2017 sunsets (CW). Electrolytes, hydrogen peroxide, Vitamins.** The summaries are completed but the LS is waiting for TRs. It is likely that the summary for electrolytes will be modified based on the information in the TR.
- **2017 sunsets (FT). Fenbendazole, Ivermectin, Moxidectin.** The summaries were circulated previously and the discussion was deferred to this call while waiting for the TR. The TR has not yet been received. The members discussed the summary and will pose some questions.
- **AQ legacy doc.** A member provided a separate document in which historical public comment was compiled. LS members asked for clarification about the source of these data. The lead author noted that the information was collected from Regulations.gov and past meeting transcripts. The LS Chair feels that a paragraph in the main document would be adequate to capture the sense of public comment. Most members agreed that it would be representative and including comprehensive tables was not necessary. The group reached an agreement to include the tables as links in the document. The LS proceeded to a vote.

  Motion to accept the AQ Legacy report
  Motion by: CBo
  Seconded by: JR
  Additional Discussion: The group discussed the format of the document, which was changed from a discussion document to a report.
  Yes: 7 No: 0 Abstain: 0 Absent: 1 Recuse: 0

  Motion passed

- **2017 sunsets (JR). Excipients.** Waiting for TR. The lead proposed that they do not pose questions aside from the standard questions included in the introduction. The summary will

include a note that the TR is in development. The members briefly mentioned the suitability of the current annotation.

- **2017 sunsets - Copper sulfate (TF).** Used in walk-through footbaths used to help control and prevent hoof related diseases in dairy cattle and sheep. Often used in combination with zinc sulfate. Members discussed environmental concerns for soil and plants in comparison with zinc. Copper sulfate is not used routinely, and there are organic management practices in place to mitigate soil degradation, therefore this is not likely something that will become an issue. NOP noted that the crops annotation would apply if the waste material is disposed of on certified land. The LS will add a question for public comment regarding disposal and fate in soil.
- **Zinc Sulfate (TF). Members discussed the petition for zinc sulfate, as well as the TR, checklist and proposal. The LS proceeded to a vote.**

  Motion to classify zinc sulfate as petitioned as synthetic
  Motion by: TF
  Seconded by: JR
  Additional Discussion: none
  Yes: 7 No: 0 Abstain: 0 Absent: 1 Recuse: 0

  Motion passed

  Motion to add zinc sulfate for use as a footbath only on to 205.603
  Motion by: TF
  Seconded by: CW
  Additional Discussion: Several members were interested in gleaning more info for public comment in the interim.
  Yes: 4 No: 3 Abstain: 0 Absent: 1 Recuse: 0

  Motion passed

- **MET conversation -** After much discussion and consideration, the Chair decided to allow the inclusion of the minority opinion as a separate document even though it had not been introduced to the entire Livestock Subcommittee in time for members to familiarize themselves with it. Two Subcommittee members expressed the views that the writing of the minority opinion was in accordance to the current NOSB Policy and Procedures Manuel. Another member expressed the view that issues should be voted upon early enough to allow sufficient time for a minority opinion to be written, if one is to be written. The Chair noted that while she respects and supports the right to include a minority opinion, it was not respectful to the rest of the Livestock Subcommittee for the minority to introduce a document after the Subcommittee had already voted on the proposal. The Chair noted that this will not be allowed in the future. One member expressed support and understanding for the Chair's decision to allow this document, but felt that this process was not reflective of the appropriate NOSB procedures and practice. Another member expressed discomfort with the lack of discussion of the extensive minority opinion and the new information it contains.
- **The meeting was adjourned**

Previous LS Notes

Future Call Schedule:

Feb 17, 2015 3:00 ET

- 2017 sunsets (CW). Discuss TR sufficiency (if TR is back) or possible questions - Electrolytes, hydrogen peroxide, Vitamins. Deferred to next call
- 2017 sunsets (FT). Discuss TR sufficiency - Fenbendazole, Ivermectin, Moxidectin. Deferred to next call
- 2017 sunsets (FT). Continue discussion of Tolazoline. Completed Feb 2
- 2017 sunsets (FT). Discuss TR sufficiency/continue discussion about questions – Chlorhexidine. Completed
  - 2017 sunsets (JR). Discuss TR sufficiency (if TR was received) – Excipients.
  - 2017 sunsets (PD). Discuss TR sufficiency (if TR was received) - Mineral oil - Completed
  - 2017 sunsets (CBo). Discuss summaries - Butorphanol, Formic Acid, Xylazine - Completed (will continue Butorphanol on next call)
  - 2017 sunsets (TF). Discuss TR sufficiency - Hydrated lime. Deferred to next call
  - 2017 sunsets: Copper sulfate (TF). Discuss TR sufficiency. Deferred to next call
- 2017 sunsets (TF). Discuss summaries - completed
  - Atropine.
  - EPA List 4 Inerts
  - Flunixin
  - Furosemide
  - Glycerine
  - Magnesium hydroxide
  - Magnesium sulfate
  - Methionine
- Zinc Sulfate - discuss TR/checklist. Deferred to next call
- MET- discuss proposal/vote- completed

Feb 24, 2015 3:00 ET

- 2017 sunsets (CBo). Butorphanol. Continue discussion of questions for summary.
- 2017 sunsets (TF). Discuss TR sufficiency - Hydrated lime.
- 2017 sunsets (CW). Discuss TR sufficiency (if TR is back) or possible questions - Electrolytes, hydrogen peroxide, Vitamins
- 2017 sunsets (FT). Discuss TR sufficiency - Fenbendazole, Ivermectin, Moxidectin.
- AQ legacy doc follow-up discussion and vote (TF). Vote
- 2017 sunsets (JR). Excipients Discuss TR sufficiency (if TR was received)
- 2017 sunsets: Copper sulfate (TF). Discuss summary.
- Zinc Sulfate (TF) - discuss TR/checklist

Mar 3, 2015 3:00 ET
Mar 17, 2015 3:00 ET
Apr 7, 2015 3:00 ET
Apr 21, 2015 3:00 ET

Spring 2015 Milestones	Target date
NOSB Training	Feb 4-5, 2015
NOP - Complete Spring 2015 NOSB meeting tentative agenda	Feb 7, 2015
NOSB - Spring 2015 proposals due to NOP	Feb 25, 2015
NOP - Post proposals, Publish FRN, Open public comment	Mar 9, 2015

Discuss work agendas on ES call	Mar 13, 2015
Public comment closes	Apr 6, 2015
Work agendas finalized on ES call (last call before spring mtg)	Apr 10, 2015
NOP - Send compiled public comments to NOSB	Apr 13, 2015
Spring 2015 NOSB meeting - La Jolla, CA	Week of April 27 - 30

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy or regulations. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

National Organic Standards Board (NOSB)
Livestock/Aquaculture Subcommittee (LS) Meeting Notes
Tuesday, March 3, 2015 3:00pm ET

Attending: Tracy Favre, Chair (TF); Colehour Bondera (CBo); Ashley Swaffar (AS); Calvin Walker, Vice Chair (CW); Jean Richardson (JR); Francis Thicke (FT); Harold Austin (HA) - sitting in
Absent: Mac Stone (MS); Paula Daniels (PD)
Staff: Michelle Arsenault (MA), Emily Brown Rosen (EBR)

Work Agenda

Petitioned Materials						
Substance	**Nat'l List §**	**Contact**	**TR requested**	**Notes**	**Vote**	**Meeting**
Methionine in organic poultry feed (MET)-petitioned	205.603	MS	2011 TR	Petition recv'd 04 08 2011 TR received 11 15 11	02 17 15	Proposal Spr 2015
Acidified Sodium chlorite (ASC) Petition Addendum #1 Petition Addendum #2	205.603 (a)(b)	JD/FT	2008 TR 2013 TR	Petition sent to LS 06 12 12. Petition found sufficient 09 18. TR requested on 09 18 12. TR sent to LS 05 08 13. TR found suff 07 30 13. Fall 2013 meeting cancelled. Spring 2014 sent back to LS.	01 27 15	Proposal Spr 2015
Aluminum Sulfate (PDF)	205.603	JR	Y	The petitioner requests two related allowances on the NL: (1) treatment of poultry litter (205.603) and (2) application of treated poultry litter to the field (205.601). Sent to LS 03 12 14. TR request sent to NOP 06 18 14. TR expected Jan 2015.		Proposal Fall 2015
Sodium Bisulfate	205.603	JR	Y	Petition sent to LS 05 27 14. Q's for petitioner/TR request due 07 28 14. TR request sent to NOP 08 06 14. TR expected Jan 2015.		TBD
Zinc Sulfate	205.603	TF	2015	Petition sent to LS 06 16 14. Q's for petitioner/TR request due 8 19 14. Limited Scope TR request sent to NOP 08 06 14. TR expected mid-Jan 2015. TR sent to LS 02 09 15. Suff due 04 10 15. TR found suff 02 24 15	02 24 15	Fall 2015

Aquaculture-CO_2, (for aquatic plants)	205.609	TF/CBo	N	Petition sent to CS on 5 30 12. Will rqst modification from petitioner (for use pattern). Updated petition was deemed sufficient. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Chlorine (for aquatic plants)	205.609	~~JD~~/FT	2011 Crops TR 2006 TR 1995 TAP	Petition sent to CS on 5 30 12. Determine petition sufficiency. CS requested clarification from petitioner 11 20 12. 2011 TR deemed suff for this review 11 20 12. Additional aquaculture TR deemed unnecessary. Sent follow up questions to petitioner. Response deemed sufficient.	NA	Proposal TBD
Aquaculture-Micronutrients (for aquatic plants)	205.609	FT	2010 TR (Nickel) 6/2013 Minerals TR	Petition sent to CS on 06 08 12. Petition sufficiency response due 08 08 12? CS sent request to NL Mgr 12 04 12 for additional info. Questions clarified by petitioner. Petition found sufficient 06 18 13 and 07 02 13. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Lignin sulfonate (chelating agent for aquatic plants) (for aquatic plants) CAS #s 9009-75-0, 8062-15-5, 8061-51-6	205.609	JR	2/2011 Crops TR 7/2013 TR Aquatic Animals TR	Petition sent to CS on 07 03 12. Petition Sufficiency Response due 09 04 12. CS sent request to NL Mgr 12 04 12 for additional info and TR. Questions clarified by petitioner. Petition found sufficient 6 18 13 and 07 02 13.	NA	Proposal TBD
Aquaculture-Vitamins (B1, B12, H) for aquatic plants	205.609	CW	4/2013 Aquatic Animals TR	Petition sent to CS 08 10 12. Petition Sufficiency response due 10 10 12. Petition found sufficient 06 18 13.	NA	Proposal TBD

Aquaculture - Biologics: Vaccines for Aquatic Animals	205.611	JR	2011 TR (Vaccines made from GMOs)	Petition sent to LS 06 14 12. Petition found sufficient and TR requested on 05 21 13. (NOP note: TR sent to LS 01 24 14. TR deemed sufficient 02 03 14	NA	Proposal TBD
Aquaculture - Chlorine (for aquatic animals)	205.611	~~JD~~/FT	No Crops 2011 Crops 2006 Crops 1995 Livestock 2006 Handling 2006	Petition sent to LS on 05 30 12. Petition found sufficient 07 03 12. No TR requested	NA	Proposal TBD
Aquaculture – Tocopherols (for aquatic animals)	205.611	TF/CBo	2013 TR 1995 TAP rvw	Petition sent to LS on 05 30 12. Petition found sufficient 08 06 12. TR requested 08 06 12. Draft TR sent to LS on 04 16 13. TR found sufficient 06 04 13	NA	Proposal TBD
Aquaculture – Vitamins (for aquatic animals)	205.611	CW/FT	Yes 2013 TR	Petition sent to LS on 05 30 12. Response due ~07 30 12. Petition found sufficient 08 06 12. Requested joint TR with Minerals 08 06 12. TR sent to LS 04 29 13. TR found suff 06 18 13.	NA	Proposal TBD
Aquaculture - Trace Minerals (for aquatic animals)	205.611	CW/FT	2013 TR	Petition sent to LS on 06 08 12. Response due ~08 08 12. Petition found sufficient 08 06 12? Requested joint TR with Vitamins 08 06 12. TR sent to LS 06 25 13. Suff due 08 27 13. TR found sufficient 07 16 13. Fall 2013 meeting cancelled.	NA	Proposal TBD

2017 Sunsets TR Requests Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**TR requested**	**Notes**	**Summary discussion**	**Meeting**
Ethanol §205.603	TF	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	01 27 15	Summary: Spr 2015 Review: Fall 2015
Isopropanol §205.603	CW	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	01 06 15	

Chlorhexidine §205.603	~~JD~~/FT/ CW	2010 TR 2015 TR	TR requested 08 15 14. TR expected Jan/Feb 2015. TR sent to LS 02 26 15. Suff due 03 06 15. TR found suff 03 03 15.	02 02 15	
Copper sulfate §205.603	TF	1995 TAP 2015 Lmtd Scope	TR in development (expected Dec 2014). TR sent to LS 02 13 15. Suff due 03 06 15. TR found suff 02 17 15	02 24 15	
Electrolytes §205.603	CW	1995 TAP	TR expected Jan/Feb 2015	02 24 15	
Excipients §205.603	~~CBo~~/JR	2015	TR expected Jan/Feb 2015. TR sent to LS 02 26 15. Suff due 03 06 15. TR found suff 03 03 15.	02 24 15	
Fenbendazole §205.603	FT	1999 TR Y	Combined with other paraciticides (Moxidectin and Ivermectin). TR expected Jan/Feb 2015	02 24 15	
Ivermectin §205.603	FT	1999 TR Y	Combined with other paraciticides (Fendbendazole and Moxidectin). TR expected Jan/Feb 2015	02 24 15	
Moxidectin §205.603	FT	2003 TR Y	Combined with other paraciticides (Fendbendazole and Ivermectin). TR expected Jan/Feb 2015	02 24 15	
Hydrated lime §205.603(b)	TF	1995 TAP	TR expected Jan/Feb 2015	02 24 15	
Hydrogen peroxide §205.603(a)	CW	Y (for Crops 205.601(a))	TR for Crops expected Jan/Feb 2015	02 24 15	
Iodine 205.603(a)(14) and 205.603(b)(2)	JR	1994 TAP 2015 TR	TR expected Jan/Feb 2015. TR sent to LS 01 07 15. Suff due 03 06 15. TR found sufficient 01 20 15	01 20 15 and 01 27 15	
Mineral oil §205.603	PD	2002 TR Y	TR expected Jan/Feb 2015	02 17 15	
Vitamins §205.603(d)	CW	Y Lmtd scope	TR expected Jan/Feb 2015	02 24 15	

2017 Sunsets (No TRs) Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**New TR reqst?**	**Notes**	**Discussed**	**Meeting**
Aspirin §205.603	JR	N (04 01)		01 20 15	Summary: Spr 2015 Review: Fall 2015
Atropine §205.603	TF	N (06 03)		02 17 15	
Butorphanol §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	02 24 15	
Calcium hypochlorite §205.603	FT/~~JD~~	N (06 17)		01 06 15 and 01 27 15	

Chlorine dioxide	FT/~~JD~~	N (06 17)		01 06 15 & 01 27 15	
EPA List 4 - Inerts of Minimal Concern §205.603	TF	N (06 03)	TR for NPEs sent to CS 01 30 15. No action by LS needed.	02 17 15	
Flunixin §205.603	TF	N (06 03)		02 17 15	
Formic Acid §205.603	CBo	N (06 17)		02 17 15	
Furosemide §205.603	TF	N (06 03)		02 17 15	
Glucose §205.603	CW	N (07 01)		01 20 15	
Glycerine §205.603	TF	N (06 03)		02 17 15	
Lidocaine §205.603	JR	N (04 01)		01 20 15	
Magnesium hydroxide §205.603	TF	N		02 17 15	
Magnesium sulfate §205.603	TF	N		02 17 15	
Methionine §205.603	TF	N		02 17 15	
Oxytocin §205.603	CW	N (07 01)		01 20 15	
Peracetic acid §205.603	JR	N (04 01)		01 20 15	
Phosphoric acid §205.603	JR	N (04 01)		01 20 15	
Poloxalene §205.603	FT	N		02 02 15	
Procaine §205.603	JR	N (04 01)		01 20 15	
Sodium hypochlorite §205.603	FT/JD	N (06 17)		01 06 15 and 01 27 15	
Strychnine 205.604	JR	N (04 01)		01 20 15	
Sucrose octanoate esters §205.603	FT	N		02 02 15	
Trace minerals §205.603	FT	N		02 02 15	
Vaccines §205.603	JR	N (04 01)		01 20 15	
Tolazoline §205.603	FT	2002 TR Y	New TR requested. Not contracted.	02 02 15	
Xylazine §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	02 17 15	

Other projects					
Project	**Contact**	**TR Reqst?**	**Notes**	**Vote**	**Meeting**
AQ Review Legacy summary	TF		Summary of the AQ review to date.	02 24 15	Report Spr 2015

* Yellow highlight indicates committee action needed

Agenda

- Approve notes from February 24, 2015
- 2017 Sunset - Excipients. TR sufficiency and discussion
- Work plan for Fall 2015 Meeting 2 templates and proposals
- Research Priorities - Development timeline for fall 2015 meeting
- Public comments for the Spring 2015 meeting
- Aquaculture petitioned materials.
- Adjourn

Discussion

- **Notes from** February 24, 2015 were not available for review
- **2017 sunset - Excipients (JR)**. The LS discussed the TR, which was very comprehensive and found it sufficient. The LS Chair recommended that others read it as well, and consider that there are 8000 materials that qualify as excipients.
- **Spring meeting wrap up**. Members discussed the MET minority report and verified that this is the final document that will be posted along with the MET proposal for the spring meeting.
- **2017 sunset - Chlorhexidine** (FT) - The TR was found sufficient. CW let the group know that he sent an email to the FDA on behalf of the lead reviewer asking about teat dips and approved animal drugs. The NOP clarified that most of the teat dips are considered unapproved animal drugs, and although not registered as a drug, the FDA also does not view them as a concern. NOP also informed the LS that the FDA maintains a registry for non-approved animal drugs. **Work plan for fall 2015**. Meeting 2 templates and proposals. The templates will be provided to the Subcommittee members in Word version and the LS will schedule discussions for the summer.
- **Public comments**. The LS Chair asked that members review any public comment for their specific materials in preparation for the spring meeting.
- Aquaculture petitioned materials. Since the draft aquaculture rule will not be published until later this year, it is not likely the LS will work on any of the materials in calendar year 2015.
- Research Priorities. The LS Chair, along with the NOSB Chair and others, met with a representative from NIFA in DC in February to talk about the NOSB research priorities. She noted the need to be more proactive about discussing research priorities for the fall 2015 NOSB meeting. A discussion was scheduled for May 19
- **The meeting was adjourned**

Previous LS Notes

Future Call Schedule:

Feb 24, 2015 3:00 ET

- 2017 sunsets (CBo). Butorphanol. Continue discussion of questions for summary.

- 2017 sunsets (TF). Discuss TR sufficiency - Hydrated lime.
- 2017 sunsets (CW). Discuss TR sufficiency (if TR is back) or possible questions - Electrolytes, hydrogen peroxide, Vitamins
- 2017 sunsets (FT). Discuss TR sufficiency - Fenbendazole, Ivermectin, Moxidectin.
- AQ legacy doc follow-up discussion and vote (TF). Vote
- 2017 sunsets (JR). Excipients Discuss TR sufficiency (if TR was received)
- 2017 sunsets: Copper sulfate (TF). Discuss summary.
- Zinc Sulfate (TF) - discuss TR/checklist

Mar 3, 2015 3:00 ET

Mar 17, 2015 3:00 ET

Discuss who will present what at the spring meeting.
Schedule the discussion of the 2017 materials for the second posting.
Discuss public comment

Apr 7, 2015 3:00 ET

Apr 21, 2015 3:00 ET

May 5, 2015 cancelled.

May 19, 2015

Research Priorities discussion

Spring 2015 Milestones	Target date
NOSB Training	Feb 4-5, 2015
NOP - Complete Spring 2015 NOSB meeting tentative agenda	Feb 7, 2015
NOSB - Spring 2015 proposals due to NOP	Feb 25, 2015
NOP - Post proposals, Publish FRN, Open public comment	Mar 9, 2015
Discuss work agendas on ES call	Mar 13, 2015
Public comment closes	Apr 6, 2015
Work agendas finalized on ES call (last call before spring mtg)	Apr 10, 2015
NOP - Send compiled public comments to NOSB	Apr 13, 2015
Spring 2015 NOSB meeting - La Jolla, CA	Week of April 27 - 30

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy or regulations. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

National Organic Standards Board (NOSB)
Livestock/Aquaculture Subcommittee (LS) Meeting Notes
Tuesday, March 17, 2015 3:00pm ET

Attending: Tracy Favre, Chair (TF); Jean Richardson (JR); Francis Thicke (FT); Paula Daniels (PD); Colehour Bondera (CBo); Calvin Walker, Vice Chair (CW); Harold Austin (HA) - sitting in
Absent: Mac Stone (MS); Ashley Swaffar (AS)
Staff: Michelle Arsenault (MA), Emily Brown Rosen (EBR)

Work Agenda

Petitioned Materials						
Substance	**Nat'l List §**	**Contact**	**TR requested**	**Notes**	**Vote**	**Meeting**
Methionine in organic poultry feed (MET)- petitioned	205.603	MS	2011 TR	Petition recv'd 04 08 2011 TR received 11 15 11	02 17 15	Proposal Spr 2015
Acidified Sodium chlorite (ASC) Petition Addendum #1 Petition Addendum #2	205.603 (a)(b)	JD/FT	2008 TR 2013 TR	Petition sent to LS 06 12 12. Petition found sufficient 09 18. TR requested on 09 18 12. TR sent to LS 05 08 13. TR found suff 07 30 13. Fall 2013 meeting cancelled. Spring 2014 sent back to LS.	01 27 15	Proposal Spr 2015
Aluminum Sulfate (PDF)	205.603	JR	Y	The petitioner requests two related allowances on the NL: (1) treatment of poultry litter (205.603) and (2) application of treated poultry litter to the field (205.601). Sent to LS 03 12 14. TR request sent to NOP 06 18 14. TR expected Jan 2015.		Proposal Fall 2015
Sodium Bisulfate	205.603	JR	Y	Petition sent to LS 05 27 14. Q's for petitioner/TR request due 07 28 14. TR request sent to NOP 08 06 14. TR expected Jan 2015.		TBD
Zinc Sulfate	205.603	TF	2015	Petition sent to LS 06 16 14. Q's for petitioner/TR request due 8 19 14. Limited Scope TR request sent to NOP 08 06 14. TR expected mid-Jan 2015. TR sent to LS 02 09 15. Suff due 04 10 15. TR found suff 02 24 15	02 24 15	Fall 2015

Aquaculture-CO_2, (for aquatic plants)	205.609	TF/CBo	N	Petition sent to CS on 5 30 12. Will rqst modification from petitioner (for use pattern). Updated petition was deemed sufficient. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Chlorine (for aquatic plants)	205.609	~~JD~~/FT	2011 Crops TR 2006 TR 1995 TAP	Petition sent to CS on 5 30 12. Determine petition sufficiency. CS requested clarification from petitioner 11 20 12. 2011 TR deemed suff for this review 11 20 12. Additional aquaculture TR deemed unnecessary. Sent follow up questions to petitioner. Response deemed sufficient.	NA	Proposal TBD
Aquaculture-Micronutrients (for aquatic plants)	205.609	FT	2010 TR (Nickel) 6/2013 Minerals TR	Petition sent to CS on 06 08 12. Petition sufficiency response due 08 08 12? CS sent request to NL Mgr 12 04 12 for additional info. Questions clarified by petitioner. Petition found sufficient 06 18 13 and 07 02 13. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Lignin sulfonate (chelating agent for aquatic plants) (for aquatic plants) CAS #s 9009-75-0, 8062-15-5, 8061-51-6	205.609	JR	2/2011 Crops TR 7/2013 TR Aquatic Animals TR	Petition sent to CS on 07 03 12. Petition Sufficiency Response due 09 04 12. CS sent request to NL Mgr 12 04 12 for additional info and TR. Questions clarified by petitioner. Petition found sufficient 6 18 13 and 07 02 13.	NA	Proposal TBD
Aquaculture-Vitamins (B1, B12, H) for aquatic plants	205.609	CW	4/2013 Aquatic Animals TR	Petition sent to CS 08 10 12. Petition Sufficiency response due 10 10 12. Petition found sufficient 06 18 13.	NA	Proposal TBD

Aquaculture - Biologics: Vaccines for Aquatic Animals	205.611	JR	2011 TR (Vaccines made from GMOs)	Petition sent to LS 06 14 12. Petition found sufficient and TR requested on 05 21 13. (NOP note: TR sent to LS 01 24 14. TR deemed sufficient 02 03 14	NA	Proposal TBD
Aquaculture - Chlorine (for aquatic animals)	205.611	~~JD~~/FT	No Crops 2011 Crops 2006 Crops 1995 Livestock 2006 Handling 2006	Petition sent to LS on 05 30 12. Petition found sufficient 07 03 12. No TR requested	NA	Proposal TBD
Aquaculture – Tocopherols (for aquatic animals)	205.611	TF/CBo	2013 TR 1995 TAP rvw	Petition sent to LS on 05 30 12. Petition found sufficient 08 06 12. TR requested 08 06 12. Draft TR sent to LS on 04 16 13. TR found sufficient 06 04 13	NA	Proposal TBD
Aquaculture – Vitamins (for aquatic animals)	205.611	CW/FT	Yes 2013 TR	Petition sent to LS on 05 30 12. Response due ~07 30 12. Petition found sufficient 08 06 12. Requested joint TR with Minerals 08 06 12. TR sent to LS 04 29 13. TR found suff 06 18 13.	NA	Proposal TBD
Aquaculture - Trace Minerals (for aquatic animals)	205.611	CW/FT	2013 TR	Petition sent to LS on 06 08 12. Response due ~08 08 12. Petition found sufficient 08 06 12? Requested joint TR with Vitamins 08 06 12. TR sent to LS 06 25 13. Suff due 08 27 13. TR found sufficient 07 16 13. Fall 2013 meeting cancelled.	NA	Proposal TBD

2017 Sunsets TR Requests Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**TR requested**	**Notes**	**Summary discussion**	**Meeting**
Ethanol §205.603	TF	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	01 27 15	Summary: Spr 2015 Review: Fall 2015
Isopropanol §205.603	CW	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	01 06 15	

Chlorhexidine §205.603	~~JD~~/FT/ CW	2010 TR Y	TR requested 08 15 14. TR expected Jan/Feb 2015. TR sent to LS 02 26 15. Suff due 03 06 15. TR found suff 03 03 15.	02 02 15	
Copper sulfate §205.603	TF	1995 TAP 2015 Lmtd Scope	TR in development (expected Dec 2014). TR sent to LS 02 13 15. Suff due 03 06 15. TR found suff 02 17 15	02 24 15	
Electrolytes §205.603	CW	1995 TAP	TR expected Jan/Feb 2015. TR sent to LS 03 27 15. Suff due ASAP	02 24 15	
Excipients §205.603	~~CBo~~/JR	Y	TR expected Jan/Feb 2015. TR sent to LS 02 26 15. Suff due 03 06 15. TR found suff 03 03 15.	02 24 15	
Fenbendazole §205.603	FT	1999 TR Y	Combined with other paraciticides (Moxidectin and Ivermectin). TR expected Jan/Feb 2015	02 24 15	
Ivermectin §205.603	FT	1999 TR Y	Combined with other paraciticides (Fendbendazole and Moxidectin). TR expected Jan/Feb 2015	02 24 15	
Moxidectin §205.603	FT	2003 TR Y	Combined with other paraciticides (Fendbendazole and Ivermectin). TR expected Jan/Feb 2015	02 24 15	
Hydrated lime §205.603(b)	TF	1995 TAP	TR expected Jan/Feb 2015. TR sent to LS 03 27 15. Suff due ASAP	02 24 15	
Hydrogen peroxide §205.603(a)	CW	Y (for Crops 205.601(a))	TR for Crops expected Jan/Feb 2015	02 24 15	
Iodine 205.603(a)(14) and 205.603(b)(2)	JR	1994 TAP 2015 TR	TR expected Jan/Feb 2015. TR sent to LS 01 07 15. Suff due 03 06 15. TR found sufficient 01 20 15	01 20 15 and 01 27 15	
Mineral oil §205.603	PD	2002 TR Y	TR expected Jan/Feb 2015	02 17 15	
Vitamins §205.603(d)	CW	Y Lmtd scope	TR expected Jan/Feb 2015	02 24 15	

2017 Sunsets (No TRs) Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**New TR reqst?**	**Notes**	**Discussed**	**Meeting**
Aspirin §205.603	JR	N (04 01)		01 20 15	Summary: Spr 2015 Review: Fall 2015
Atropine §205.603	TF	N (06 03)		02 17 15	
Butorphanol §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	02 24 15	

Calcium hypochlorite §205.603	FT/~~JD~~	N (06 17)		01 06 15 and 01 27 15	
Chlorine dioxide	FT/~~JD~~	N (06 17)		01 06 15 & 01 27 15	
EPA List 4 - Inerts of Minimal Concern §205.603	TF	N (06 03)	TR for NPEs sent to CS 01 30 15. No action by LS needed.	02 17 15	
Flunixin §205.603	TF	N (06 03)		02 17 15	
Formic Acid §205.603	CBo	N (06 17)		02 17 15	
Furosemide §205.603	TF	N (06 03)		02 17 15	
Glucose §205.603	CW	N (07 01)		01 20 15	
Glycerine §205.603	TF	N (06 03)		02 17 15	
Lidocaine §205.603	JR	N (04 01)		01 20 15	
Magnesium hydroxide §205.603	TF	N		02 17 15	
Magnesium sulfate §205.603	TF	N		02 17 15	
Methionine §205.603	TF	N		02 17 15	
Oxytocin §205.603	CW	N (07 01)		01 20 15	
Peracetic acid §205.603	JR	N (04 01)		01 20 15	
Phosphoric acid §205.603	JR	N (04 01)		01 20 15	
Poloxalene §205.603	FT	N		02 02 15	
Procaine §205.603	JR	N (04 01)		01 20 15	
Sodium hypochlorite §205.603	FT/JD	N (06 17)		01 06 15 and 01 27 15	
Strychnine 205.604	JR	N (04 01)		01 20 15	
Sucrose octanoate esters §205.603	FT	N		02 02 15	
Trace minerals §205.603	FT	N		02 02 15	
Vaccines §205.603	JR	N (04 01)		01 20 15	
Tolazoline §205.603	FT	2002 TR Y	New TR requested. Not contracted.	02 02 15	

Xylazine §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	02 17 15	

Other projects					
Project	**Contact**	**TR Reqst?**	**Notes**	**Vote**	**Meeting**
AQ Review Legacy summary	TF		Summary of the AQ review to date.	02 24 15	Report Spr 2015

* Yellow highlight indicates committee action needed

Agenda

- Approve notes from the February 24 call if available
- Approve notes from the March 3 call if available
- TR sufficiency for Mineral Oil (PD)
- TR sufficiency for Vitamins (CW)
- Discuss Spring meeting presentations and discussion
- Scheduling discussion of Meeting 2 proposals
- Additional calls?
- Adjourn

Discussion

- **Notes from the February 24 and March 3 call were not available for review yet.**
- **TR sufficiency for Mineral Oil (PD).** The lead found the TR was very informative and helpful, and noted that it was much more informative than the previous one.
- **TR sufficiency for Vitamins (CW).** The lead noted via email that he found the TR sufficient and the LS Chair agreed. Members discussed the issues around GM microorganisms used in production of vitamins, and discussed various options. Suggestions included having the Materials/GMO ad hoc Subcommittee work on this issue, and letting the community and stakeholders drive the development of alternatives. A member expressed the opinion that NOSB needs to work on this issue due to stakeholder concerns. **Spring meeting presentations and discussion** - The LS expressed support for collaborating with other Subcommittees to make sure all of the sunset presentations are similar and uniform. Members discussed the best way to present the 2017 sunset materials given the large number of them. The consensus was that there should be a simple summary of the material along with the public comments. The LS Chair will draft some language for consistency and clarification and the members will discuss it on the next call.
- **Meeting 2 proposal discussions.** On April 7 the group will schedule discussions of the 2017 sunset reviews
- **Additional calls.** The LS will add several calls to the agenda to facilitate review of the sunset materials. See below for dates.
- **The meeting was adjourned**

Previous LS Notes

Future Call Schedule:
Mar 3, 2015 3:00 ET
Mar 17, 2015 3:00 ET

Discuss who will present what at the spring meeting.
Schedule the discussions of the 2017 materials for the second posting.
Discuss public comment

Apr 7, 2015 3:00 ET

Assign discussions for 2017 sunsets
Discuss spring meeting presentations format

Apr 21, 2015 3:00 ET
May 5, 2015 cancelled.
May 19, 2015

Discuss Research priorities.

May 26, 2015 - additional call
June 2, 2015
June 16, 2015
June 23, 2015 - additional call
June 30, 2015 - additional call
July 7, 2015
July 21, 2015
July 28, 2015 - additional call
August 4, 2015
August 18, 2015
August 25, 2015 - additional call
September 1, 2015
September 15, 2015
October 6, 2015
October 20, 2015
November 3, 2015
November 17, 2015
December 1, 2015
December 15, 2015

Spring 2015 Milestones	Target date
NOSB Training	Feb 4-5, 2015
NOP - Complete Spring 2015 NOSB meeting tentative agenda	Feb 7, 2015
NOSB - Spring 2015 proposals due to NOP	Feb 25, 2015
NOP - Post proposals, Publish FRN, Open public comment	Mar 9, 2015
Discuss work agendas on ES call	Mar 13, 2015
Public comment closes	Apr 6, 2015
Work agendas finalized on ES call (last call before spring mtg)	Apr 10, 2015
NOP - Send compiled public comments to NOSB	Apr 13, 2015
Spring 2015 NOSB meeting - La Jolla, CA	Week of April 27 - 30

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy or regulations. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

National Organic Standards Board (NOSB)
Livestock/Aquaculture Subcommittee (LS) Meeting Notes
Tuesday, April 7, 2015 3:00pm ET

Attending: Tracy Favre, Chair (TF); Jean Richardson (JR); Francis Thicke (FT); Colehour Bondera (CBo); Calvin Walker, Vice Chair (CW); Ashley Swaffar (AS); Carmela Beck (CBe); Paula Daniels (PD); Tom Chapman (TC)
Absent: Mac Stone (MS)
Staff: Michelle Arsenault (MA); Devon Pattillo (DP)

Work Agenda

Petitioned Materials						
Substance	**Nat'l List §**	**Contact**	**TR requested**	**Notes**	**Vote**	**Meeting**
Methionine in organic poultry feed (MET)- petitioned	205.603	MS	2011 TR	Petition recv'd 04 08 2011 TR received 11 15 11	02 17 15	Proposal Spr 2015
Acidified Sodium chlorite (ASC) Petition Addendum #1 Petition Addendum #2	205.603 (a)(b)	JD/FT	2008 TR 2013 TR	Petition sent to LS 06 12 12. Petition found sufficient 09 18. TR requested on 09 18 12. TR sent to LS 05 08 13. TR found suff 07 30 13. Fall 2013 meeting cancelled. Spring 2014 sent back to LS.	01 27 15	Proposal Spr 2015
Aluminum Sulfate (PDF)	205.603	JR	Y	The petitioner requests two related allowances on the NL: (1) treatment of poultry litter (205.603) and (2) application of treated poultry litter to the field (205.601). Sent to LS 03 12 14. TR request sent to NOP 06 18 14. TR expected Jan 2015.		Proposal Fall 2015
Sodium Bisulfate	205.603	JR	Y	Petition sent to LS 05 27 14. Q's for petitioner/TR request due 07 28 14. TR request sent to NOP 08 06 14. TR expected Jan 2015.		TBD
Zinc Sulfate	205.603	TF	2015	Petition sent to LS 06 16 14. Q's for petitioner/TR request due 8 19 14. Limited Scope TR request sent to NOP 08 06 14. TR expected mid-Jan 2015. TR sent to LS 02 09 15. Suff due 04 10 15. TR found suff 02 24 15	02 24 15	Spr 2015

Acid-Activated Bentonite	205.603	AS		Petition sent to LS 04 03 15. Q's for petitioner. TR request due 06 02 15. Two related petitions pending for treatment of poultry litter: **sodium bisulfate** and **aluminum sulfate**. TAP for Kaolin Clay and Bentonite 1995		
Aquaculture-CO_2, (for aquatic plants)	205.609	TF/CBo	N	Petition sent to CS on 5 30 12. Will rqst modification from petitioner (for use pattern). Updated petition was deemed sufficient. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Chlorine (for aquatic plants)	205.609	~~JD~~/FT	2011 Crops TR 2006 TR 1995 TAP	Petition sent to CS on 5 30 12. Determine petition sufficiency. CS requested clarification from petitioner 11 20 12. 2011 TR deemed suff for this review 11 20 12. Additional aquaculture TR deemed unnecessary. Sent follow up questions to petitioner. Response deemed sufficient.	NA	Proposal TBD
Aquaculture-Micronutrients (for aquatic plants)	205.609	FT	2010 TR (Nickel) 6/2013 Minerals TR	Petition sent to CS on 06 08 12. Petition sufficiency response due 08 08 12? CS sent request to NL Mgr 12 04 12 for additional info. Questions clarified by petitioner. Petition found sufficient 06 18 13 and 07 02 13. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Lignin sulfonate (chelating agent for aquatic plants) (for aquatic plants) CAS #s 9009-75-0, 8062-15-5, 8061-51-6	205.609	JR	2/2011 Crops TR 7/2013 TR Aquatic Animals TR	Petition sent to CS on 07 03 12. Petition Sufficiency Response due 09 04 12. CS sent request to NL Mgr 12 04 12 for additional info and TR. Questions clarified by petitioner. Petition found sufficient 6 18 13 and 07 02 13.	NA	Proposal TBD

Aquaculture-Vitamins (B1, B12, H) for aquatic plants	205.609	CW	4/2013 Aquatic Animals TR	Petition sent to CS 08 10 12. Petition Sufficiency response due 10 10 12. Petition found sufficient 06 18 13.	NA	Proposal TBD
Aquaculture - Biologics: Vaccines for Aquatic Animals	205.611	JR	2011 TR (Vaccines made from GMOs)	Petition sent to LS 06 14 12. Petition found sufficient and TR requested on 05 21 13. (NOP note: TR sent to LS 01 24 14. TR deemed sufficient 02 03 14	NA	Proposal TBD
Aquaculture - Chlorine (for aquatic animals)	205.611	~~JD~~/FT	No Crops 2011 Crops 2006 Crops 1995 Livestock 2006 Handling 2006	Petition sent to LS on 05 30 12. Petition found sufficient 07 03 12. No TR requested	NA	Proposal TBD
Aquaculture – Tocopherols (for aquatic animals)	205.611	TF/CBo	2013 TR 1995 TAP rvw	Petition sent to LS on 05 30 12. Petition found sufficient 08 06 12. TR requested 08 06 12. Draft TR sent to LS on 04 16 13. TR found sufficient 06 04 13	NA	Proposal TBD
Aquaculture – Vitamins (for aquatic animals)	205.611	CW/FT	Yes 2013 TR	Petition sent to LS on 05 30 12. Response due ~07 30 12. Petition found sufficient 08 06 12. Requested joint TR with Minerals 08 06 12. TR sent to LS 04 29 13. TR found suff 06 18 13.	NA	Proposal TBD
Aquaculture - Trace Minerals (for aquatic animals)	205.611	CW/FT	2013 TR	Petition sent to LS on 06 08 12. Response due ~08 08 12. Petition found sufficient 08 06 12? Requested joint TR with Vitamins 08 06 12. TR sent to LS 06 25 13. Suff due 08 27 13. TR found sufficient 07 16 13. Fall 2013 meeting cancelled.	NA	Proposal TBD

2017 Sunsets TR Requests Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**TR requested**	**Notes**	**Summary discussion**	**Meeting**
Ethanol §205.603	TF	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	01 27 15	Summary: Spr 2015 Review: Fall 2015

Isopropanol §205.603	CW	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	01 06 15	
Chlorhexidine §205.603	~~JD~~/FT/ CW	2010 TR Y	TR requested 08 15 14. TR expected Jan/Feb 2015. TR sent to LS 02 26 15. Suff due 03 06 15. TR found suff 03 03 15.	02 02 15	
Copper sulfate §205.603	TF	1995 TAP 2015 Lmtd Scope	TR in development (expected Dec 2014). TR sent to LS 02 13 15. Suff due 03 06 15. TR found suff 02 17 15	02 24 15	
Electrolytes §205.603	CW	1995 TAP 2015 TR	TR expected Jan/Feb 2015. TR sent to LS 03 27 15. Suff due ASAP. TR found suff 04 07 15	02 24 15	
Excipients §205.603	~~CBo~~/JR	Y	TR expected Jan/Feb 2015. TR sent to LS 02 26 15. Suff due 03 06 15. TR found suff 03 03 15.	02 24 15	
Fenbendazole §205.603	FT	1999 TR Y	Combined with other paraciticides (Moxidectin and Ivermectin). TR expected Jan/Feb 2015	02 24 15	
Ivermectin §205.603	FT	1999 TR Y	Combined with other paraciticides (Fendbendazole and Moxidectin). TR expected Jan/Feb 2015	02 24 15	
Moxidectin §205.603	FT	2003 TR Y	Combined with other paraciticides (Fendbendazole and Ivermectin). TR expected Jan/Feb 2015	02 24 15	
Hydrated lime §205.603(b)	TF	1995 TAP	TR expected Jan/Feb 2015. TR sent to LS 03 27 15. Suff due ASAP. TR found suff 04 07 15	02 24 15	
Hydrogen peroxide §205.603(a)	CW	Y (for Crops 205.601(a))	TR for Crops expected Jan/Feb 2015	02 24 15	
Iodine 205.603(a)(14) and 205.603(b)(2)	JR	1994 TAP 2015 TR	TR expected Jan/Feb 2015. TR sent to LS 01 07 15. Suff due 03 06 15. TR found sufficient 01 20 15	01 20 15 and 01 27 15	
Mineral oil §205.603	PD	2002 TR 2015 TR	TR expected Jan/Feb 2015	02 17 15	
Vitamins §205.603(d)	CW	2015 Lmtd scope	TR expected Jan/Feb 2015	02 24 15	

2017 Sunsets (No TRs) Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**New TR reqst?**	**Notes**	**Discussed**	**Meeting**
Aspirin §205.603	JR	N (04 01)		01 20 15	Summary: Spr 2015 Review: Fall 2015
Atropine §205.603	TF	N (06 03)		02 17 15	

Butorphanol §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	02 24 15	
Calcium hypochlorite §205.603	FT/~~JD~~	N (06 17)		01 06 15 and 01 27 15	
Chlorine dioxide	FT/~~JD~~	N (06 17)		01 06 15 & 01 27 15	
EPA List 4 - Inerts of Minimal Concern §205.603	TF	N (06 03)	TR for NPEs sent to CS 01 30 15. No action by LS needed.	02 17 15	
Flunixin §205.603	TF	N (06 03)		02 17 15	
Formic Acid §205.603	CBo	N (06 17)		02 17 15	
Furosemide §205.603	TF	N (06 03)		02 17 15	
Glucose §205.603	CW	N (07 01)		01 20 15	
Glycerine §205.603	TF	N (06 03)		02 17 15	
Lidocaine §205.603	JR	N (04 01)		01 20 15	
Magnesium hydroxide §205.603	TF	N		02 17 15	
Magnesium sulfate §205.603	TF	N		02 17 15	
Methionine §205.603	TF	N		02 17 15	
Oxytocin §205.603	CW	N (07 01)		01 20 15	
Peracetic acid §205.603	JR	N (04 01)		01 20 15	
Phosphoric acid §205.603	JR	N (04 01)		01 20 15	
Poloxalene §205.603	FT	N		02 02 15	
Procaine §205.603	JR	N (04 01)		01 20 15	
Sodium hypochlorite §205.603	FT/JD	N (06 17)		01 06 15 and 01 27 15	
Strychnine 205.604	JR	N (04 01)		01 20 15	
Sucrose octanoate esters §205.603	FT	N		02 02 15	
Trace minerals §205.603	FT	N		02 02 15	
Vaccines §205.603	JR	N (04 01)		01 20 15	

Tolazoline §205.603	FT	2002 TR Y	New TR requested. Not contracted.	02 02 15	
Xylazine §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	02 17 15	

Other projects					
Project	**Contact**	**TR Reqst?**	**Notes**	**Vote**	**Meeting**
AQ Review Legacy summary	TF		Summary of the AQ review to date.	02 24 15	Report Spr 2015

* Yellow highlight indicates committee action needed

Agenda

- Approve notes from the February 24
- Approve notes from the March 3
- Approve notes from the March 17
- 2017 sunset - Electrolytes (CW) TR Sufficiency (TR sent to LS 03 27 15)
- 2017 sunset - Hydrated Lime TR Sufficiency (TR sent to LS 03 27 15)
- Assign discussion dates for 2017 sunsets
- Discuss spring meeting presentations format
- Assign lead for new petition for Acid-Activated Bentonite
- Schedule summer review discussions
- Adjourn

Discussion

- **Notes from the February 24, March 3 and March 17** approved with minor edits submitted by several members.
- **2017 sunset - Electrolytes (CW).** CW noted that the TR was well written and found sufficient, and he summarized the petition and TR for the group. The members thought the TR answered all the questions they had posed and there was no need to pose additional questions for the next posting**.**
- **2017 sunset - Hydrated Lime TR sufficiency (TF).** The LS found the TR to be well written and deemed it sufficient. The lead indicated that there are some additional questions and is interested in public comment on this material.
- **Discussion dates for 2017 sunsets.** The LS Chair compiled a spreadsheet with the assignments, as some materials were reassigned. For the April meeting, the original leads will present the materials and the reassignments will apply for the fall.
- **Spring meeting presentations format.** Members discussed the 2017 summaries and how they will be presented and discussed at the spring meeting.
- **Acid-Activated Bentonite.** The LS received a new petition and assigned AS as lead reviewer.
- **Schedule summer review discussions.** The Chair summarized the next steps for the sunset review and the group will schedule discussion dates on the next call.
- **The meeting was adjourned**

Previous LS Notes

Future Call Schedule:

Mar 17, 2015 3:00 ET

Discuss who will present what at the spring meeting.
Schedule the discussions of the 2017 materials for the second posting.
Discuss public comment

Apr 7, 2015 3:00 ET

2017 sunset - Electrolytes (CW) TR Sufficiency (TR sent to LS 03 27 15)
2017 sunset - Hydrated Lime (TF) TR Sufficiency (TR sent to LS 03 27 15)
Assign discussion dates for 2017 sunsets
Discuss spring meeting presentations format
Discuss public comment

Apr 21, 2015 3:00 ET

Discuss public comment
Spring meeting format and presentations

May 5, 2015 cancelled.

May 19, 2015

Discuss Research priorities.
Paraciticides (FT)

May 26, 2015 - additional call

Strychnine (JR)
Glycerin (TF)

June 2, 2015

Vitamins (CW)

June 16, 2015

Glucose, Hydrogen peroxide, isopropanol (CW)

June 23, 2015 - additional call

June 30, 2015 - additional call

July 7, 2015

July 21, 2015

Iodine (JR) - discuss proposal & vote
Excipients (JR) - discuss proposal & vote

July 28, 2015 - additional call

August 4, 2015

Hydrated Lime (TF)

August 18, 2015

Atropine, mineral oil (PD)
Flunixin and Furosemide (AS)

August 25, 2015 - additional call

September 1, 2015

September 15, 2015

October 6, 2015

October 20, 2015

November 3, 2015

November 17, 2015

December 1, 2015

December 15, 2015

Spring 2015 Milestones	Target date

NOSB Training	Feb 4-5, 2015
NOP - Complete Spring 2015 NOSB meeting tentative agenda	Feb 7, 2015
NOSB - Spring 2015 proposals due to NOP	Feb 25, 2015
NOP - Post proposals, Publish FRN, Open public comment	Mar 9, 2015
Discuss work agendas on ES call	Mar 13, 2015
Public comment closes	Apr 6, 2015
Work agendas finalized on ES call (last call before spring mtg)	Apr 10, 2015
NOP - Send compiled public comments to NOSB	Apr 13, 2015
Spring 2015 NOSB meeting - La Jolla, CA	Week of April 27 - 30

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy or regulations. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

National Organic Standards Board (NOSB)
Livestock/Aquaculture Subcommittee (LS) Meeting Notes
Tuesday, April 21, 2015 3:00pm ET

Attending: Tracy Favre, Chair (TF); Jean Richardson (JR); Francis Thicke (FT); Colehour Bondera (CBo); Calvin Walker, Vice Chair (CW); Ashley Swaffar (AS); Tom Chapman (TC)
Absent: Mac Stone (MS); Paula Daniels (PD); Carmela Beck (CBe)
Staff: Michelle Arsenault (MA); Emily Brown Rosen (EBR)

Work Agenda

Petitioned Materials						
Substance	**Nat'l List §**	**Contact**	**TR requested**	**Notes**	**Vote**	**Meeting**
Methionine in organic poultry feed (MET)-petitioned	205.603	MS	2011 TR	Petition recv'd 04 08 2011 TR received 11 15 11	02 17 15	Proposal Spr 2015
Acidified Sodium chlorite (ASC) Petition Addendum #1 Petition Addendum #2	205.603 (a)(b)	JD/FT	2008 TR 2013 TR	Petition sent to LS 06 12 12. Petition found sufficient 09 18. TR requested on 09 18 12. TR sent to LS 05 08 13. TR found suff 07 30 13. Fall 2013 meeting cancelled. Spring 2014 sent back to LS.	01 27 15	Proposal Spr 2015
Aluminum Sulfate (PDF)	205.603	JR	Y	The petitioner requests two related allowances on the NL: (1) treatment of poultry litter (205.603) and (2) application of treated poultry litter to the field (205.601). Sent to LS 03 12 14. TR request sent to NOP 06 18 14. TR expected Jan 2015.		Proposal Fall 2015
Sodium Bisulfate	205.603	JR	Y	Petition sent to LS 05 27 14. Q's for petitioner/TR request due 07 28 14. TR request sent to NOP 08 06 14. TR expected Jan 2015.		TBD
Zinc Sulfate	205.603	TF	2015	Petition sent to LS 06 16 14. Q's for petitioner/TR request due 8 19 14. Limited Scope TR request sent to NOP 08 06 14. TR expected mid-Jan 2015. TR sent to LS 02 09 15. Suff due 04 10 15. TR found suff 02 24 15	02 24 15	Spr 2015

Acid-Activated Bentonite	205.603	AS		Petition sent to LS 04 03 15. Q's for petitioner. TR request due 06 02 15. Two related petitions pending for treatment of poultry litter: **sodium bisulfate** and **aluminum sulfate**. TAP for Kaolin Clay and Bentonite 1995		
Aquaculture-CO_2, (for aquatic plants)	205.609	TF/CBo	N	Petition sent to CS on 5 30 12. Will rqst modification from petitioner (for use pattern). Updated petition was deemed sufficient. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Chlorine (for aquatic plants)	205.609	~~JD~~/FT	2011 Crops TR 2006 TR 1995 TAP	Petition sent to CS on 5 30 12. Determine petition sufficiency. CS requested clarification from petitioner 11 20 12. 2011 TR deemed suff for this review 11 20 12. Additional aquaculture TR deemed unnecessary. Sent follow up questions to petitioner. Response deemed sufficient.	NA	Proposal TBD
Aquaculture-Micronutrients (for aquatic plants)	205.609	FT	2010 TR (Nickel) 6/2013 Minerals TR	Petition sent to CS on 06 08 12. Petition sufficiency response due 08 08 12? CS sent request to NL Mgr 12 04 12 for additional info. Questions clarified by petitioner. Petition found sufficient 06 18 13 and 07 02 13. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Lignin sulfonate (chelating agent for aquatic plants) (for aquatic plants) CAS #s 9009-75-0, 8062-15-5, 8061-51-6	205.609	JR	2/2011 Crops TR 7/2013 TR Aquatic Animals TR	Petition sent to CS on 07 03 12. Petition Sufficiency Response due 09 04 12. CS sent request to NL Mgr 12 04 12 for additional info and TR. Questions clarified by petitioner. Petition found sufficient 6 18 13 and 07 02 13.	NA	Proposal TBD

Aquaculture-Vitamins (B1, B12, H) for aquatic plants	205.609	CW	4/2013 Aquatic Animals TR	Petition sent to CS 08 10 12. Petition Sufficiency response due 10 10 12. Petition found sufficient 06 18 13.	NA	Proposal TBD
Aquaculture - Biologics: Vaccines for Aquatic Animals	205.611	JR	2011 TR (Vaccines made from GMOs)	Petition sent to LS 06 14 12. Petition found sufficient and TR requested on 05 21 13. (NOP note: TR sent to LS 01 24 14. TR deemed sufficient 02 03 14	NA	Proposal TBD
Aquaculture - Chlorine (for aquatic animals)	205.611	~~JD~~/FT	No Crops 2011 Crops 2006 Crops 1995 Livestock 2006 Handling 2006	Petition sent to LS on 05 30 12. Petition found sufficient 07 03 12. No TR requested	NA	Proposal TBD
Aquaculture – Tocopherols (for aquatic animals)	205.611	TF/CBo	2013 TR 1995 TAP rvw	Petition sent to LS on 05 30 12. Petition found sufficient 08 06 12. TR requested 08 06 12. Draft TR sent to LS on 04 16 13. TR found sufficient 06 04 13	NA	Proposal TBD
Aquaculture – Vitamins (for aquatic animals)	205.611	CW/FT	Yes 2013 TR	Petition sent to LS on 05 30 12. Response due ~07 30 12. Petition found sufficient 08 06 12. Requested joint TR with Minerals 08 06 12. TR sent to LS 04 29 13. TR found suff 06 18 13.	NA	Proposal TBD
Aquaculture - Trace Minerals (for aquatic animals)	205.611	CW/FT	2013 TR	Petition sent to LS on 06 08 12. Response due ~08 08 12. Petition found sufficient 08 06 12? Requested joint TR with Vitamins 08 06 12. TR sent to LS 06 25 13. Suff due 08 27 13. TR found sufficient 07 16 13. Fall 2013 meeting cancelled.	NA	Proposal TBD

2017 Sunsets TR Requests Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**TR requested**	**Notes**	**Summary discussion**	**Meeting**
Ethanol §205.603	TF	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	01 27 15	Summary: Spr 2015 Review: Fall 2015

Isopropanol §205.603	CW	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	01 06 15	
Chlorhexidine §205.603	~~JD~~/FT/ CW	2010 TR Y	TR requested 08 15 14. TR expected Jan/Feb 2015. TR sent to LS 02 26 15. Suff due 03 06 15. TR found suff 03 03 15.	02 02 15	
Copper sulfate §205.603	TF	1995 TAP 2015 Lmtd Scope	TR in development (expected Dec 2014). TR sent to LS 02 13 15. Suff due 03 06 15. TR found suff 02 17 15	02 24 15	
Electrolytes §205.603	CW	1995 TAP 2015 TR	TR expected Jan/Feb 2015. TR sent to LS 03 27 15. Suff due ASAP. TR found suff 04 07 15	02 24 15	
Excipients §205.603	~~CBo~~/JR	Y	TR expected Jan/Feb 2015. TR sent to LS 02 26 15. Suff due 03 06 15. TR found suff 03 03 15.	02 24 15	
Fenbendazole §205.603	FT	1999 TR Y	Combined with other paraciticides (Moxidectin and Ivermectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP	02 24 15	
Ivermectin §205.603	FT	1999 TR Y	Combined with other paraciticides (Fendbendazole and Moxidectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP	02 24 15	
Moxidectin §205.603	FT	2003 TR Y	Combined with other paraciticides (Fendbendazole and Ivermectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP	02 24 15	
Hydrated lime §205.603(b)	TF	1995 TAP	TR expected Jan/Feb 2015. TR sent to LS 03 27 15. Suff due ASAP. TR found suff 04 07 15	02 24 15	
Hydrogen peroxide §205.603(a)	CW	Y (for Crops 205.601(a))	TR for Crops expected Jan/Feb 2015	02 24 15	
Iodine 205.603(a)(14) and 205.603(b)(2)	JR	1994 TAP 2015 TR	TR expected Jan/Feb 2015. TR sent to LS 01 07 15. Suff due 03 06 15. TR found sufficient 01 20 15	01 20 15 and 01 27 15	
Mineral oil §205.603	PD	2002 TR 2015 TR	TR expected Jan/Feb 2015	02 17 15	
Vitamins §205.603(d)	CW	2015 Lmtd scope	TR expected Jan/Feb 2015	02 24 15	

2017 Sunsets (No TRs) Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**New TR reqst?**	**Notes**	**Discussed**	**Meeting**

Aspirin §205.603	JR	N (04 01)		01 20 15	Summary: Spr 2015 Review: Fall 2015
Atropine §205.603	TF	N (06 03)		02 17 15	
Butorphanol §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	02 24 15	
Calcium hypochlorite §205.603	FT/~~JD~~	N (06 17)		01 06 15 and 01 27 15	
Chlorine dioxide	FT/~~JD~~	N (06 17)		01 06 15 & 01 27 15	
EPA List 4 - Inerts of Minimal Concern §205.603	TF	N (06 03)	TR for NPEs sent to CS 01 30 15. No action by LS needed.	02 17 15	
Flunixin §205.603	TF	N (06 03)		02 17 15	
Formic Acid §205.603	CBo	N (06 17)		02 17 15	
Furosemide §205.603	TF	N (06 03)		02 17 15	
Glucose §205.603	CW	N (07 01)		01 20 15	
Glycerine §205.603	TF	N (06 03)		02 17 15	
Lidocaine §205.603	JR	N (04 01)		01 20 15	
Magnesium hydroxide §205.603	TF	N		02 17 15	
Magnesium sulfate §205.603	TF	N		02 17 15	
Methionine §205.603	TF	N		02 17 15	
Oxytocin §205.603	CW	N (07 01)		01 20 15	
Peracetic acid §205.603	JR	N (04 01)		01 20 15	
Phosphoric acid §205.603	JR	N (04 01)		01 20 15	
Poloxalene §205.603	FT	N		02 02 15	
Procaine §205.603	JR	N (04 01)		01 20 15	
Sodium hypochlorite §205.603	FT/JD	N (06 17)		01 06 15 and 01 27 15	
Strychnine 205.604	JR	N (04 01)		01 20 15	

Sucrose octanoate esters §205.603	FT	N		02 02 15	
Trace minerals §205.603	FT	N		02 02 15	
Vaccines §205.603	JR	N (04 01)		01 20 15	
Tolazoline §205.603	FT	2002 TR Y	New TR requested. Not contracted.	02 02 15	
Xylazine §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	02 17 15	

Other projects					
Project	**Contact**	**TR Reqst?**	**Notes**	**Vote**	**Meeting**
AQ Review Legacy summary	TF		Summary of the AQ review to date.	02 24 15	Report Spr 2015

* Yellow highlight indicates committee action needed

Agenda

- Approve notes from April 7
- Review Public Comments
- Discuss presentation of materials at meeting
- Adjourn

Discussion

- **Notes from the April 7** not available for review yet.
- **Presentation of materials at spring meeting.**
    - The LS discussed materials that may need additional discussion time at the spring NOSB meeting. Some topics that received public comment include: NPEs, Iodine, Furosemide, Flunixin, Magnesium Sulfate and paraciticides. The TR for parasiticides was sent to the LS April 20, and has not yet been reviewed for sufficiency.
    - The LS Chair asked that members include a summary of public comment trends, rather than counting numbers, as well as info about a materials use.
    - MET - the NOP suggested clarification for the terminology in the proposal regarding the total % of MET. Members discussed various aspects of the MET proposal as well as the comments. The group also discussed the presentation of the minority opinion. The NOSB Chair suggested a verbal discussion without a visual presentation other than the actual Board recommendation.
- **The meeting was adjourned**

Previous LS Notes

Future Call Schedule:

Apr 7, 2015 3:00 ET

2017 sunset - Electrolytes (CW) TR Sufficiency (TR sent to LS 03 27 15)
2017 sunset - Hydrated Lime (TF) TR Sufficiency (TR sent to LS 03 27 15)

Assign discussion dates for 2017 sunsets
Discuss spring meeting presentations format
Discuss public comment

Apr 21, 2015 3:00 ET
Discuss public comment
Spring meeting format and presentations

May 5, 2015 cancelled.

May 19, 2015
Discuss Research priorities.
Paraciticides (FT)

May 26, 2015 - additional call
Strychnine (JR)
Glycerin (TF)

June 2, 2015
Vitamins (CW)

June 16, 2015
Glucose, Hydrogen peroxide, isopropanol (CW)

June 23, 2015 - additional call

June 30, 2015 - additional call

July 7, 2015

July 21, 2015
Iodine (JR) - discuss proposal & vote
Excipients (JR) - discuss proposal & vote

July 28, 2015 - additional call

August 4, 2015
Hydrated Lime (TF)

August 18, 2015
Atropine, mineral oil (PD)
Flunixin and Furosemide (AS)

August 25, 2015 - additional call

September 1, 2015

September 15, 2015

October 6, 2015

October 20, 2015

November 3, 2015

November 17, 2015

December 1, 2015

December 15, 2015

Spring 2015 Milestones	Target date
NOSB Training	Feb 4-5, 2015
NOP - Complete Spring 2015 NOSB meeting tentative agenda	Feb 7, 2015
NOSB - Spring 2015 proposals due to NOP	Feb 25, 2015
NOP - Post proposals, Publish FRN, Open public comment	Mar 9, 2015
Discuss work agendas on ES call	Mar 13, 2015

Public comment closes	Apr 6, 2015
Work agendas finalized on ES call (last call before spring mtg)	Apr 10, 2015
NOP - Send compiled public comments to NOSB	Apr 13, 2015
Spring 2015 NOSB meeting - La Jolla, CA	Week of April 27 - 30

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy or regulations. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

National Organic Standards Board (NOSB)
Livestock/Aquaculture Subcommittee (LS) Meeting Notes
Tuesday, May 19, 2015 3:00pm ET

Attending: Tracy Favre, Chair (TF); Jean Richardson (JR); Francis Thicke (FT); Colehour Bondera (CBo); Calvin Walker, Vice Chair (CW); Ashley Swaffar (AS), Co-VC
Absent: Mac Stone (MS); Paula Daniels (PD)
Staff: Michelle Arsenault (MA); Emily Brown Rosen (EBR)

Work Agenda

Petitioned Materials						
Substance	**Nat'l List §**	**Contact**	**TR requested**	**Notes**	**Vote**	**Meeting**
Aluminum Sulfate (PDF)	205.603	JR	Y	The petitioner requests two related allowances on the NL: (1) treatment of poultry litter (205.603) and (2) application of treated poultry litter to the field (205.601). Sent to LS 03 12 14. TR request sent to NOP 06 18 14. TR expected Jan 2015. TRs (2) sent to LS 05 15 15. Suff due 07 15 15		Proposal Fall 2015
Sodium Bisulfate	205.603	JR	Y	Petition sent to LS 05 27 14. Q's for petitioner/TR request due 07 28 14. TR request sent to NOP 08 06 14. TR expected Jan 2015. TR sent to LS 05 14 15. Suff due 07 14 15. TR found suff 05 19 15		TBD
Acid-Activated Bentonite	205.603	AS		Petition sent to LS 04 03 15. Q's for petitioner. TR request due 06 02 15. Two related petitions pending for treatment of poultry litter: **sodium bisulfate** and **aluminum sulfate**. TAP for Kaolin Clay and Bentonite 1995		TBD
Aquaculture-CO_2, (for aquatic plants)	205.609	TF/CBo	N	Petition sent to CS 5 30 12. Will rqst modification from petitioner (for use pattern). Updated petition was deemed sufficient. TR deemed unnecessary.	NA	Proposal TBD

Aquaculture-Chlorine (for aquatic plants)	205.609	~~JD~~/FT	2011 Crops TR 2006 TR 1995 TAP	Petition sent to CS on 5 30 12. Determine petition sufficiency. CS requested clarification from petitioner 11 20 12. 2011 TR deemed suff for this review 11 20 12. Additional aquaculture TR deemed unnecessary. Sent follow up questions to petitioner. Response deemed sufficient.	NA	Proposal TBD
Aquaculture-Micronutrients (for aquatic plants)	205.609	FT	2010 TR (Nickel) 6/2013 Minerals TR	Petition sent to CS on 06 08 12. Petition sufficiency response due 08 08 12? CS sent request to NL Mgr 12 04 12 for additional info. Questions clarified by petitioner. Petition found sufficient 06 18 13 and 07 02 13. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Lignin sulfonate (chelating agent for aquatic plants) (for aquatic plants) CAS #s 9009-75-0, 8062-15-5, 8061-51-6	205.609	JR	2/2011 Crops TR 7/2013 TR Aquatic Animals TR	Petition sent to CS on 07 03 12. Petition Sufficiency Response due 09 04 12. CS sent request to NL Mgr 12 04 12 for additional info and TR. Questions clarified by petitioner. Petition found sufficient 6 18 13 and 07 02 13.	NA	Proposal TBD
Aquaculture-Vitamins (B1, B12, H) for aquatic plants	205.609	CW	4/2013 Aquatic Animals TR	Petition sent to CS 08 10 12. Petition Sufficiency response due 10 10 12. Petition found sufficient 06 18 13.	NA	Proposal TBD
Aquaculture - Biologics: Vaccines for Aquatic Animals	205.611	JR	2011 TR (Vaccines made from GMOs)	Petition sent to LS 06 14 12. Petition found sufficient and TR requested on 05 21 13. (NOP note: TR sent to LS 01 24 14. TR deemed sufficient 02 03 14	NA	Proposal TBD

Aquaculture - Chlorine (for aquatic animals)	205.611	~~JD~~/FT	No Crops 2011 Crops 2006 Crops 1995 Livestock 2006 Handling 2006	Petition sent to LS on 05 30 12. Petition found sufficient 07 03 12. No TR requested	NA	Proposal TBD
Aquaculture – Tocopherols (for aquatic animals)	205.611	TF/CBo	2013 TR 1995 TAP rvw	Petition sent to LS on 05 30 12. Petition found sufficient 08 06 12. TR requested 08 06 12. Draft TR sent to LS on 04 16 13. TR found sufficient 06 04 13	NA	Proposal TBD
Aquaculture – Vitamins (for aquatic animals)	205.611	CW/FT	Yes 2013 TR	Petition sent to LS on 05 30 12. Response due ~07 30 12. Petition found sufficient 08 06 12. Requested joint TR with Minerals 08 06 12. TR sent to LS 04 29 13. TR found suff 06 18 13.	NA	Proposal TBD
Aquaculture - Trace Minerals (for aquatic animals)	205.611	CW/FT	2013 TR	Petition sent to LS on 06 08 12. Response due ~08 08 12. Petition found sufficient 08 06 12? Requested joint TR with Vitamins 08 06 12. TR sent to LS 06 25 13. Suff due 08 27 13. TR found sufficient 07 16 13. Fall 2013 meeting cancelled.	NA	Proposal TBD

2017 Sunsets TR Requests Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**TR requested**	**Notes**	**Discussion scheduled:**	**Meeting**
Ethanol §205.603	TF	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	08 18 15	Review: Fall 2015
Isopropanol §205.603	CW	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	06 18 16	
Chlorhexidine §205.603	~~JD~~/FT/ CW	2010 TR Y	TR requested 08 15 14. TR expected Jan/Feb 2015. TR sent to LS 02 26 15. Suff due 03 06 15. TR found suff 03 03 15.	06 02 15	
Copper sulfate §205.603	TF	1995 TAP 2015 Lmtd Scope	TR in development (expected Dec 2014). TR sent to LS 02 13 15. Suff due 03 06 15. TR found suff 02 17 15	05 26 15	

Electrolytes §205.603	CW	1995 TAP 2015 TR	TR expected Jan/Feb 2015. TR sent to LS 03 27 15. Suff due ASAP. TR found suff 04 07 15	08 04 15	
Excipients §205.603	~~CBo~~/JR	Y	TR expected Jan/Feb 2015. TR sent to LS 02 26 15. Suff due 03 06 15. TR found suff 03 03 15.	07 21 15	
Paraciticides - Fenbendazole §205.603	FT	1999 TR Y	Combined with other paraciticides (Moxidectin and Ivermectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP. TR found suff 05 19 15	05 26 15	
Paraciticides - Ivermectin §205.603	FT	1999 TR Y	Combined with other paraciticides (Fendbendazole and Moxidectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP. TR found suff 05 19 15	05 26 15	
Paraciticides - Moxidectin §205.603	FT	2003 TR Y	Combined with other paraciticides (Fendbendazole and Ivermectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP. TR found suff 05 19 15	05 26 15	
Hydrated lime §205.603(b)	TF	1995 TAP	TR expected Jan/Feb 2015. TR sent to LS 03 27 15. Suff due ASAP. TR found suff 04 07 15	08 04 15	
Hydrogen peroxide §205.603(a)	CW	Y (for Crops 205.601(a))	TR for Crops expected Jan/Feb 2015	06 16 15	
Iodine 205.603(a)(14) and 205.603(b)(2)	JR	1994 TAP 2015 TR	TR expected Jan/Feb 2015. TR sent to LS 01 07 15. Suff due 03 06 15. TR found sufficient 01 20 15	07 21 15	
Mineral oil §205.603	PD	2002 TR 2015 TR	TR expected Jan/Feb 2015	08 18 15	
Vitamins §205.603(d)	CW	2015 Lmtd scope	TR expected Jan/Feb 2015	06 02 15	

2017 Sunsets (No TRs) Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**New TR reqst?**	**Notes**	**Discussion scheduled**	**Meeting**
Aspirin §205.603	JR	N (04 01)		05 19 15	Summary: Spr 2015 Review: Fall 2015
Atropine §205.603	TF	N (06 03)		08 18 15	
Butorphanol §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	06 23 15	
Calcium hypochlorite §205.603	FT/~~JD~~	N (06 17)		07 21 15	

Chlorine dioxide	FT/~~JD~~	N (06 17)		07 21 15	
EPA List 4 - Inerts of Minimal Concern §205.603	TF	N (06 03)	TR for NPEs sent to CS 01 30 15. No action by LS needed.	05 26 15	
Flunixin §205.603	TF	N (06 03)		08 18 15	
Formic Acid §205.603	CBo	N (06 17)		07 07 15	
Furosemide §205.603	TF	N (06 03)		08 18 15	
Glucose §205.603	CW	N (07 01)		06 16 15	
Glycerine §205.603	TF	N (06 03)		05 26 15	
Lidocaine §205.603	JR	N (04 01)		05 19 15	
Magnesium hydroxide §205.603	TF	N		08 25 15	
Magnesium sulfate §205.603	TF	N		08 25 15	
Methionine §205.603	TF	N		06 02 15	
Oxytocin §205.603	CW	N (07 01)		08 04 15	
Peracetic acid §205.603	JR	N (04 01)		08 18 15	
Phosphoric acid §205.603	JR	N (04 01)		05 26 15	
Poloxalene §205.603	FT	N		06 02 15	
Procaine §205.603	JR	N (04 01)		05 19 15	
Sodium hypochlorite §205.603	FT/JD	N (06 17)		07 21 15	
Strychnine 205.604	JR	N (04 01)		05 26 15	
Sucrose octanoate esters §205.603	FT	N		06 02 15	
Trace minerals §205.603	FT	N		08 04 15	
Vaccines §205.603	JR	N (04 01)		05 26 15	
Tolazoline §205.603	FT	2002 TR Y	New TR requested. Not contracted.	08 04 15	
Xylazine §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	08 04 15	

Other projects					
Project	**Contact**	**TR Reqst?**	**Notes**	**Vote**	**Meeting**

* Yellow highlight indicates committee action needed

Agenda

- Approve notes from April 7 and April 21
- Discuss Research priorities
- 2017 sunsets - Paraciticides (FT)
- 2017 sunsets - Aspirin, Lidocaine, Procaine (JR)
- Discuss Public comment on AQ legacy doc
- Adjourn

Discussion

- **Notes from the April 7 and April 21** approved with no changes
- **Research priorities -** The LS Chair reminded the members to keep the research priorities in mind as they are reviewing materials, so they can send them to the Materials Subcomm in a timely manner.
- **2017 sunsets - Paraciticides (FT).** The lead summarized his work to date and the group discussed the three materials including the risks of resistance, possible alternatives, and the impact on the industry were they to remove one or two of the materials from the National List. The lead noted that Fenbendazole is the most benign, and suggested if they were to remove any, Ivermectin might be a candidate. A member noted that Ivermectin is the most widely used. Members discussed the need for more research and may include this as a research priority. The TRs were found sufficient and the LS will vote on the materials on the next call. TF will let LB know. The NOP added some additional info garnered from the FDA about paraciticides and use in swine and sheep. Upon initial review, it seems like it contradicts info presented in the TR. JR and FT will look further at this and report back to the group on the next call. The TR may need correction; NOP will check with the contractor.
- **2017 sunsets - Aspirin, Lidocaine, Procaine (JR).** The lead summarized the three materials noted that each material was evaluated against the OFPA criteria and was found to satisfy all of them. The LS will include a statement to that effect. The group proceeded to a vote.

  Motion to remove **Aspirin** from §205.603
  Motion by: JR
  Seconded by: TF
  Additional Discussion: none
  Yes: 0 No: 6 Abstain: 0 Absent: 2 Recuse: 0

  Motion to remove **Lidocaine** from §205.603
  Motion by: JR
  Seconded by: CW
  Additional Discussion: none
  Yes: 0 No: 6 Abstain: 0 Absent: 2 Recuse: 0

Motion to remove **Procaine** from §205.603
Motion by: JR
Seconded by: CW
Additional Discussion: The LS Chair asked if there was a need for both lidocaine and procaine. The lead answered that although lidocaine is more widely used veterinarians prefer to use procaine
Yes: 1 No: 5 Abstain: 0 Absent: 2 Recuse: 0

The lead indicated that she will develop alternative proposals for lidocaine and procaine with a modified/reduced withdrawal period. These proposals will be independent of the sunset review.

- **2017 sunsets - EPA List 4 Inerts.** Members discussed public comments, some of which requested that inert materials be reviewed individually. The NOSB will be working with the EPAs Safer Choice Program and the Inerts working groups, independent of the sunset review, and may have a document or update for the fall NOSB meeting. The lead will write the sunset review and provide it to the group so they can vote on next call.
- **Sodium bisulfate (petitioned) (JR).** Used as litter treatment in poultry houses. Similar to aluminum sulfate, which the Crops Subcommittee is reviewing. JR will confer with ZS for Crops. The TR was found sufficient.
- **Discuss Public comment on AQ legacy document.** A member asked that the public comment from the April meeting (both oral and written) be incorporated into the document and placed somewhere so that future iterations of the NOSB have that record.
- **The meeting was adjourned**

Previous LS Notes

Future Call Schedule:
May 5, 2015 cancelled
May 19, 2015
Discuss Research priorities
2017 sunsets - Paraciticides (FT)
2017 sunsets - Aspirin, Lidocaine, Procaine (JR)
May 26, 2015 - additional call
Strychnine (JR)
Glycerin (TF)
2017 sunsets - Paraciticides (FT) review proposals and vote
EPA List 4 Inerts discuss review and vote
Aluminum sulfate discuss review
June 2, 2015
Vitamins (CW)
June 16, 2015
Glucose, Hydrogen peroxide, isopropanol (CW)
June 23, 2015 - additional call

June 30, 2015 - additional call
July 7, 2015
July 21, 2015
Iodine (JR) - discuss proposal & vote
Excipients (JR) - discuss proposal & vote
July 28, 2015 - additional call
August 4, 2015
Hydrated Lime (TF)
August 18, 2015
Atropine, mineral oil (PD)
Flunixin and Furosemide (AS)
August 25, 2015 - additional call
September 1, 2015
September 15, 2015
October 6, 2015
October 20, 2015
November 3, 2015
November 17, 2015
December 1, 2015
December 15, 2015

Spring 2015 Milestones	Target date
NOSB Training	Feb 4-5, 2015
NOP - Complete Spring 2015 NOSB meeting tentative agenda	Feb 7, 2015
NOSB - Spring 2015 proposals due to NOP	Feb 25, 2015
NOP - Post proposals, Publish FRN, Open public comment	Mar 9, 2015
Discuss work agendas on ES call	Mar 13, 2015
Public comment closes	Apr 6, 2015
Work agendas finalized on ES call (last call before spring mtg)	Apr 10, 2015
NOP - Send compiled public comments to NOSB	Apr 13, 2015
Spring 2015 NOSB meeting - La Jolla, CA	Week of April 27 - 30

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy or regulations. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

National Organic Standards Board (NOSB)
Livestock/Aquaculture Subcommittee (LS) Meeting Notes
Tuesday, May 26, 2015 3:00pm ET

Attending: Tracy Favre, Chair (TF); Jean Richardson (JR); Ashley Swaffar (AS), Co-VC; Francis Thicke (FT); Colehour Bondera (CBo); Calvin Walker, Vice Chair (CW)
Absent: Emily Brown Rosen (EBR); Mac Stone (MS); Paula Daniels (PD)
Staff: Michelle Arsenault (MA); Devon Pattillo (DP)

Work Agenda

Petitioned Materials						
Substance	**Nat'l List §**	**Contact**	**TR requested**	**Notes**	**Vote**	**Meeting**
Aluminum Sulfate (PDF)	205.603	JR	Y	The petitioner requests two related allowances on the NL: (1) treatment of poultry litter (205.603) and (2) application of treated poultry litter to the field (205.601). Sent to LS 03 12 14. TR request sent to NOP 06 18 14. TR expected Jan 2015. TRs (2) sent to LS 05 15 15. Suff due 07 15 15		Proposal Fall 2015
Sodium Bisulfate	205.603	JR	2015	Petition sent to LS 05 27 14. Q's for petitioner/TR request due 07 28 14. TR request sent to NOP 08 06 14. TR expected Jan 2015. TR sent to LS 05 14 15. Suff due 07 14 15. TR found suff 05 19 15		TBD
Acid-Activated Bentonite	205.603	AS		Petition sent to LS 04 03 15. Q's for petitioner. TR request due 06 02 15. Two related petitions pending for treatment of poultry litter: **sodium bisulfate** and **aluminum sulfate**. TAP for Kaolin Clay and Bentonite 1995		TBD
Aquaculture-CO_2, (for aquatic plants)	205.609	TF/CBo	N	Petition sent to CS 5 30 12. Will rqst modification from petitioner (for use pattern). Updated petition was deemed sufficient. TR deemed unnecessary.	NA	Proposal TBD

Aquaculture-Chlorine (for aquatic plants)	205.609	~~JD~~/FT	2011 Crops TR 2006 TR 1995 TAP	Petition sent to CS on 5 30 12. Determine petition sufficiency. CS requested clarification from petitioner 11 20 12. 2011 TR deemed suff for this review 11 20 12. Additional aquaculture TR deemed unnecessary. Sent follow up questions to petitioner. Response deemed sufficient.	NA	Proposal TBD
Aquaculture-Micronutrients (for aquatic plants)	205.609	FT	2010 TR (Nickel) 6/2013 Minerals TR	Petition sent to CS on 06 08 12. Petition sufficiency response due 08 08 12? CS sent request to NL Mgr 12 04 12 for additional info. Questions clarified by petitioner. Petition found sufficient 06 18 13 and 07 02 13. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Lignin sulfonate (chelating agent for aquatic plants) (for aquatic plants) CAS #s 9009-75-0, 8062-15-5, 8061-51-6	205.609	JR	2/2011 Crops TR 7/2013 TR Aquatic Animals TR	Petition sent to CS on 07 03 12. Petition Sufficiency Response due 09 04 12. CS sent request to NL Mgr 12 04 12 for additional info and TR. Questions clarified by petitioner. Petition found sufficient 6 18 13 and 07 02 13.	NA	Proposal TBD
Aquaculture-Vitamins (B1, B12, H) for aquatic plants	205.609	CW	4/2013 Aquatic Animals TR	Petition sent to CS 08 10 12. Petition Sufficiency response due 10 10 12. Petition found sufficient 06 18 13.	NA	Proposal TBD
Aquaculture - Biologics: Vaccines for Aquatic Animals	205.611	JR	2011 TR (Vaccines made from GMOs)	Petition sent to LS 06 14 12. Petition found sufficient and TR requested on 05 21 13. (NOP note: TR sent to LS 01 24 14. TR deemed sufficient 02 03 14	NA	Proposal TBD

Aquaculture - Chlorine (for aquatic animals)	205.611	FT	No Crops 2011 Crops 2006 Crops 1995 Livestock 2006 Handling 2006	Petition sent to LS on 05 30 12. Petition found sufficient 07 03 12. No TR requested	NA	Proposal TBD
Aquaculture – Tocopherols (for aquatic animals)	205.611	TF/CBo	2013 TR 1995 TAP rvw	Petition sent to LS on 05 30 12. Petition found sufficient 08 06 12. TR requested 08 06 12. Draft TR sent to LS on 04 16 13. TR found sufficient 06 04 13	NA	Proposal TBD
Aquaculture – Vitamins (for aquatic animals)	205.611	CW/FT	Yes 2013 TR	Petition sent to LS on 05 30 12. Response due ~07 30 12. Petition found sufficient 08 06 12. Requested joint TR with Minerals 08 06 12. TR sent to LS 04 29 13. TR found suff 06 18 13.	NA	Proposal TBD
Aquaculture - Trace Minerals (for aquatic animals)	205.611	CW/FT	2013 TR	Petition sent to LS on 06 08 12. Response due ~08 08 12. Petition found sufficient 08 06 12? Requested joint TR with Vitamins 08 06 12. TR sent to LS 06 25 13. Suff due 08 27 13. TR found sufficient 07 16 13. Fall 2013 meeting cancelled.	NA	Proposal TBD

2017 Sunsets TR Requests Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**TR requested**	**Notes**	**Discussion scheduled:**	**Meeting**
Ethanol §205.603	TF	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	08 18 15	Review: Fall 2015
Isopropanol §205.603	CW	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	06 18 16	
Chlorhexidine §205.603	FT/CW	2010 TR Y	TR requested 08 15 14. TR expected Jan/Feb 2015. TR sent to LS 02 26 15. Suff due 03 06 15. TR found suff 03 03 15.	06 02 15	
Copper sulfate §205.603	TF	1995 TAP 2015 Lmtd Scope	TR in development (expected Dec 2014). TR sent to LS 02 13 15. Suff due 03 06 15. TR found suff 02 17 15	05 26 15	

Electrolytes §205.603	CW	1995 TAP 2015 TR	TR expected Jan/Feb 2015. TR sent to LS 03 27 15. Suff due ASAP. TR found suff 04 07 15	08 04 15	
Excipients §205.603	JR	Y	TR expected Jan/Feb 2015. TR sent to LS 02 26 15. Suff due 03 06 15. TR found suff 03 03 15.	07 21 15	
Fenbendazole §205.603	FT	1999 TR Y	Combined with other paraciticides (Moxidectin and Ivermectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP	05 19 15 Vote 06 02 15	
Ivermectin §205.603	FT	1999 TR Y	Combined with other paraciticides (Fendbendazole and Moxidectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP	05 19 15 Vote 06 02 15	
Moxidectin §205.603	FT	2003 TR Y	Combined with other paraciticides (Fendbendazole and Ivermectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP	05 19 15 Vote 06 02 15	
Hydrated lime §205.603(b)	TF	1995 TAP	TR expected Jan/Feb 2015. TR sent to LS 03 27 15. Suff due ASAP. TR found suff 04 07 15	08 04 15	
Hydrogen peroxide §205.603(a)	CW	Y (for Crops 205.601(a))	TR for Crops expected Jan/Feb 2015	06 16 15	
Iodine 205.603(a)(14) and 205.603(b)(2)	JR	1994 TAP 2015 TR	TR expected Jan/Feb 2015. TR sent to LS 01 07 15. Suff due 03 06 15. TR found sufficient 01 20 15	07 21 15	
Mineral oil §205.603	PD	2002 TR 2015 TR	TR expected Jan/Feb 2015	08 18 15	
Vitamins §205.603(d)	CW	2015 Lmtd scope	TR expected Jan/Feb 2015	06 02 15	

2017 Sunsets (No TRs) Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**New TR reqst?**	**Notes**	**Discussion scheduled**	**Meeting**
Aspirin §205.603	JR	N (04 01)		05 19 15	Review: Fall 2015
Atropine §205.603	TF	N (06 03)		08 18 15	
Butorphanol §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	06 23 15	
Chlorine Mtrls: Calcium hypochlorite §205.603	FT	N (06 17)		07 21 15	
Chlorine Mtrls: Chlorine dioxide	FT	N (06 17)		07 21 15	

Chlorine Mtrls: Sodium hypochlorite §205.603	AS	N (06 17)		07 21 15	
EPA List 4 - Inerts of Minimal Concern §205.603	TF	N (06 03)	TR for NPEs sent to CS 01 30 15. No action by LS needed.	05 26 15	
Flunixin §205.603	TF	N (06 03)		08 18 15	
Formic Acid §205.603	CBo	N (06 17)		07 07 15	
Furosemide §205.603	TF	N (06 03)		08 18 15	
Glucose §205.603	CW	N (07 01)		06 16 15	
Glycerine §205.603	TF	N (06 03)		05 26 15	
Lidocaine §205.603	JR	N (04 01)		05 19 15	
Magnesium hydroxide §205.603	TF	N		08 25 15	
Magnesium sulfate §205.603	TF	N		08 25 15	
Methionine §205.603	TF	N		06 02 15	
Oxytocin §205.603	CW	N (07 01)		08 04 15	
Peracetic acid §205.603	JR	N (04 01)		08 18 15	
Phosphoric acid §205.603	JR	N (04 01)		05 26 15	
Poloxalene §205.603	FT	N		06 02 15	
Procaine §205.603	JR	N (04 01)		05 19 15	
Strychnine 205.604	JR	N (04 01)		05 26 15	
Sucrose octanoate esters §205.603	FT	N		06 02 15	
Trace minerals §205.603	FT	N		08 04 15	
Vaccines §205.603	JR	N (04 01)		05 26 15	
Tolazoline §205.603	FT	2002 TR Y	New TR requested. Not contracted.	08 04 15	
Xylazine §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	08 04 15	

Other projects					
Project	**Contact**	**TR Reqst?**	**Notes**	**Vote**	**Meeting**

* Yellow highlight indicates committee action needed *Highlight indicates review completion

Agenda

- Approve notes from May 19, 2015
- 2017 sunsets - Vaccines, Phosphoric acid, Strychnine (JR)
- 2017 sunsets - Copper sulfate, Glycerin (TF)
- 2017 sunsets - Paraciticides (FT) Continue discussion and vote
- 2017 sunsets - EPA List 4 Inerts of Minimal Concern
- Adjourn

Discussion

- **Notes from the** May 19, 2015 not available for review
- **2017 sunsets (JR)**
  - **Vaccines.** The sunset review document was synthesized from the recent review documents. The members briefly discussed the material, noting that vaccines are critical for the prevention of disease and suffering in livestock, and satisfy the OFPA criteria. Since antibiotics are not allowed in organic livestock, both the NOSB and the public strongly support the continued use of vaccines. The LS proceeded to a vote.

    Motion to remove Vaccines from §205.603
    Motion by: JR
    Seconded by: CW
    Additional Discussion: A member asked for clarification about the prevalence of genetically modified vaccines. The lead noted that, with a few exceptions, vaccines are not genetically modified and that the current allowance is for non-GMO vaccines.
    Yes: 0 No: 6 Abstain: 0 Absent: 2 Recuse: 0
    Motion failed

  - **Phosphoric acid.** The lead summarized the review noting that this material satisfies the OFPA criteria. The LS proceeded to a vote.

    Motion to remove Phosphoric acid from §205.603
    Motion by: JR
    Seconded by: FT
    Additional Discussion: none
    Yes: 0 No: 6 Abstain: 0 Absent: 2 Recuse: 0
    Motion failed

  - **Strychnine (JR).** Strychnine is presently prohibited, and public sentiment supports the continuation of that status.

    Motion to remove Strychnine from §205.604

Motion by: JR
Seconded by: CW
Additional Discussion: none
Yes: 0 No: 6 Abstain: 0 Absent: 2 Recuse: 0
Motion failed

- **2017 sunsets (TF)**
  - **Copper sulfate.** Topical treatment used in walk-through footbaths. Once copper binds to soil it is difficult to remove, so there are some concerns in agricultural production. There are management and disposal practices in place to regulate this, and as such the Livestock Subcommittee believes this is an important tool for livestock producers and recommends that it remain on the list.

    Motion to remove Copper Sulfate from §205.603(b)
    Motion by: TF
    Seconded by: JR
    Additional Discussion: A member asked about the possible need for an annotation, but the lead indicated that there are already requirements for management practices and no need for an additional annotation. Another member asked about the use of Zinc Sulfate if it was available. Public comment indicated that if Zinc Sulfate were allowed, the use of Copper Sulfate would be reduced.
    Yes: 1 No: 5 Abstain: 0 Absent: 2 Recuse: 0
    Motion failed

  - **Glycerin.** Glycerin has a wide variety of uses: as a food additive, a carrier for flavors and colors, and as a humectant. Glycerin also has antibacterial, anti-fungal and anti-viral properties. It is not expected to bioaccumulate, and readily degrades. The public comment indicates support of continued listing.

    Motion to remove Glycerin from §205.605(a)
    Motion by: TF
    Seconded by: AS
    Additional Discussion: In response to a members question about comments opposing the relisting, the lead indicated that there was only overwhelming support. The NOP asked if glycerin was typically used as an excipient or as an active ingredient, and the lead noted that it was both.
    Yes: 0 No: 5 Abstain: 1 Absent: 2 Recuse: 0
    Motion failed

- **2017 sunsets - Paraciticides (FT). Continue discussion and vote.**
  - The group continued the discussion from the last call about the three parasiticides: Fenbendazole, Ivermectin, and Moxidectin. Most commenters indicated they would like to see Ivermectin removed, because it harms dung beetles, which are vital for decomposing manure patties in pasture. The lead recommended relisting Moxidectin and Fenbendazole, adding that since Moxidectin and Ivermectin are in same class, removing one would not cause a gap. Others felt that all three should remain on the list. Members discussed the contents of the draft proposal and made some suggestions for edits, which the lead will incorporate. A member asked that the lead include or make more prominent, information about how each of these materials is administered and

used, and how each material was weighed against the OFPA criteria. The group chose to delay the vote. The lead will edit the draft doc and send it to the members by the end of the week so they can vote on the next call.

- **2017 sunsets (TF) - EPA List 4 Inerts of Minimal Concern**
  - Used for a wide range of applications including surfactants and adjuvants in pesticide, herbicide and fungicide formulations. The EPA no longer maintains or uses List 4 so this is a difficult class and topic for the NOSB to review. The lead noted that some of the materials on the list have serious health impacts. The Crops Subcommittee requested a TR on NPEs and is currently working with the EPAs Safer Choice program. The proposal contains language regarding the collaboration between the NOSB and EPAs Safer Choice program so it is clear that each of the materials is subjected to the EPAs review criteria. The LS proceeded to a vote on these materials.

    Motion to remove EPA List 4 Inerts of Minimal Concern from §205.603(e)
    Motion by: TF
    Seconded by: JR
    Additional Discussion: A member asked about continued work on the annotation to exclude NPEs. The NOSB Chair and Livestock Chair both support the annotation, but this work is on hold until the work by the NOP and EPA is farther along, which will be much more useful to the NOSB work. The member who brought up the topic was invited to develop a proposal to annotate the NPEs and will inform the group on the next call if this is the direction he will go. The NOP supports this approach but it must be a project separate from the sunset review.
    Yes: 1 No: 4 Abstain: 1 Absent: 2 Recuse: 0
    Motion failed

- **The meeting was adjourned**

Previous LS Notes

Future Call Schedule:

May 19, 2015

Discuss Research priorities
2017 sunsets - Paraciticides (FT)
2017 sunsets - Aspirin, Lidocaine, Procaine (JR)

May 26, 2015 - additional call

2017 sunsets - Strychnine (JR)
2017 sunsets - Glycerin (TF)
2017 sunsets - Paraciticides (FT) review proposals and vote
2017 sunsets - EPA List 4 Inerts discuss review and vote
Aluminum sulfate (petitioned) - discuss review

June 2, 2015

Acid-Activated Bentonite - TR sufficiency
2017 sunsets - (FT) Review and vote on 4 proposals
2017 sunsets - (CW) Vitamins
2017 sunsets - (TF) MET

Discuss proposals for annotation changes.

June 16, 2015

Glucose, Hydrogen peroxide, isopropanol (CW)

June 23, 2015 - additional call

June 30, 2015 - additional call

July 7, 2015

July 21, 2015

Iodine (JR) - discuss proposal & vote

Excipients (JR) - discuss proposal & vote

July 28, 2015 - additional call

August 4, 2015

Hydrated Lime (TF)

August 18, 2015

Atropine, mineral oil (PD)

Flunixin and Furosemide (AS)

August 25, 2015 - additional call

September 1, 2015

September 15, 2015

October 6, 2015

October 20, 2015

November 3, 2015

November 17, 2015

December 1, 2015

December 15, 2015

Fall 2015 Milestones	Target date
NOP - Complete Fall 2015 NOSB meeting tentative agenda	July 8, 2015
NOSB - Fall 2015 proposals due to NOP	Aug 26, 2015
NOP - Post proposals, Publish FRN, Open public comment	Sep 8, 2015
Discuss work agendas on ES call	Sep 11, 2015
Public comment closes	Oct 5, 2015
Work agendas finalized on ES call (last call before fall meeting)	Oct 8, 2015
NOP - Send compiled public comments to NOSB	Oct 13, 2015
Fall 2015 NOSB meeting - Stowe, VT	Oct 26 - 29, 2015

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy or regulations. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

National Organic Standards Board (NOSB)
Livestock/Aquaculture Subcommittee (LS) Meeting Notes
Tuesday, June 2, 2015 3:00pm ET

Attending: Tracy Favre, Chair (TF); Jean Richardson (JR); Ashley Swaffar (AS), Co-VC; Francis Thicke (FT); Colehour Bondera (CBo); Calvin Walker, Vice Chair (CW)
Absent: Mac Stone (MS); Paula Daniels (PD)
Staff: Michelle Arsenault (MA); Emily Brown Rosen (EBR)

Work Agenda

Petitioned Materials						
Substance	**Nat'l List §**	**Contact**	**TR requested**	**Notes**	**Vote**	**Meeting**
Aluminum Sulfate (PDF)	205.603	JR	Y	The petitioner requests two related allowances on the NL: (1) treatment of poultry litter (205.603) and (2) application of treated poultry litter to the field (205.601). Sent to LS 03 12 14. TR request sent to NOP 06 18 14. TR expected Jan 2015. TRs (2) sent to LS 05 15 15. Suff due 07 15 15		Proposal Fall 2015
Sodium Bisulfate	205.603	JR	2015	Petition sent to LS 05 27 14. Q's for petitioner/TR request due 07 28 14. TR request sent to NOP 08 06 14. TR expected Jan 2015. TR sent to LS 05 14 15. Suff due 07 14 15. TR found suff 05 19 15		TBD
Acid-Activated Bentonite	205.603	AS		Petition sent to LS 04 03 15. Q's for petitioner. TR request due 06 02 15. Petition found suff 06 02 15. Determine need for TR Two related petitions pending for treatment of poultry litter: **sodium bisulfate** and **aluminum sulfate**. TAP for Kaolin Clay and Bentonite 1995		TBD

Aquaculture-CO_2, (for aquatic plants)	205.609	TF/CBo	N	Petition sent to CS 5 30 12. Will rqst modification from petitioner (for use pattern). Updated petition was deemed sufficient. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Chlorine (for aquatic plants)	205.609	FT	2011 Crops TR 2006 TR 1995 TAP	Petition sent to CS on 5 30 12. Determine petition sufficiency. CS requested clarification from petitioner 11 20 12. 2011 TR deemed suff for this review 11 20 12. Additional aquaculture TR deemed unnecessary. Sent follow up questions to petitioner. Response deemed sufficient.	NA	Proposal TBD
Aquaculture-Micronutrients (for aquatic plants)	205.609	FT	2010 TR (Nickel) 6/2013 Minerals TR	Petition sent to CS on 06 08 12. Petition sufficiency response due 08 08 12? CS sent request to NL Mgr 12 04 12 for additional info. Questions clarified by petitioner. Petition found sufficient 06 18 13 and 07 02 13. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Lignin sulfonate (chelating agent for aquatic plants) (for aquatic plants) CAS #s 9009-75-0, 8062-15-5, 8061-51-6	205.609	JR	2/2011 Crops TR 7/2013 TR Aquatic Animals TR	Petition sent to CS on 07 03 12. Petition Sufficiency Response due 09 04 12. CS sent request to NL Mgr 12 04 12 for additional info and TR. Questions clarified by petitioner. Petition found sufficient 6 18 13 and 07 02 13.	NA	Proposal TBD
Aquaculture-Vitamins (B1, B12, H) for aquatic plants	205.609	CW	4/2013 Aquatic Animals TR	Petition sent to CS 08 10 12. Petition Sufficiency response due 10 10 12. Petition found sufficient 06 18 13.	NA	Proposal TBD
Aquaculture - Biologics: Vaccines for Aquatic Animals	205.611	JR	2011 TR (Vaccines made from GMOs)	Petition sent to LS 06 14 12. Petition found sufficient and TR requested on 05 21 13. (NOP note: TR sent to LS 01 24 14. TR deemed sufficient 02 03 14	NA	Proposal TBD

Aquaculture - Chlorine (for aquatic animals)	205.611	FT	No Crops 2011 Crops 2006 Crops 1995 Livestock 2006 Handling 2006	Petition sent to LS on 05 30 12. Petition found sufficient 07 03 12. No TR requested	NA	Proposal TBD
Aquaculture – Tocopherols (for aquatic animals)	205.611	TF/CBo	2013 TR 1995 TAP rvw	Petition sent to LS on 05 30 12. Petition found sufficient 08 06 12. TR requested 08 06 12. Draft TR sent to LS on 04 16 13. TR found sufficient 06 04 13	NA	Proposal TBD
Aquaculture – Vitamins (for aquatic animals)	205.611	CW/FT	Yes 2013 TR	Petition sent to LS on 05 30 12. Response due ~07 30 12. Petition found sufficient 08 06 12. Requested joint TR with Minerals 08 06 12. TR sent to LS 04 29 13. TR found suff 06 18 13.	NA	Proposal TBD
Aquaculture - Trace Minerals (for aquatic animals)	205.611	CW/FT	2013 TR	Petition sent to LS on 06 08 12. Response due ~08 08 12. Petition found sufficient 08 06 12? Requested joint TR with Vitamins 08 06 12. TR sent to LS 06 25 13. Suff due 08 27 13. TR found sufficient 07 16 13. Fall 2013 meeting cancelled.	NA	Proposal TBD

2017 Sunsets TR Requests Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**TR requested**	**Notes**	**Discussion scheduled:**	**Meeting**
Ethanol §205.603	TF	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	08 18 15	Review: Fall 2015
Isopropanol §205.603	CW	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	06 18 16	
Chlorhexidine §205.603	FT/CW	2010 TR Y	TR requested 08 15 14. TR expected Jan/Feb 2015. TR sent to LS 02 26 15. Suff due 03 06 15. TR found suff 03 03 15.	06 16 15	
Copper sulfate §205.603	TF	1995 TAP 2015 Lmtd Scope	TR in development (expected Dec 2014). TR sent to LS 02 13 15. Suff due 03 06 15. TR found suff 02 17 15	05 26 15	

Electrolytes §205.603	CW	1995 TAP 2015 TR	TR expected Jan/Feb 2015. TR sent to LS 03 27 15. Suff due ASAP. TR found suff 04 07 15	08 04 15	
Excipients §205.603	JR	Y	TR expected Jan/Feb 2015. TR sent to LS 02 26 15. Suff due 03 06 15. TR found suff 03 03 15.	07 21 15	
Fenbendazole §205.603	FT	1999 TR Y	Combined with other paraciticides (Moxidectin and Ivermectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP	05 19 15 Vote 06 02 15	
Ivermectin §205.603	FT	1999 TR Y	Combined with other paraciticides (Fendbendazole and Moxidectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP	05 19 15 Vote 06 02 15	
Moxidectin §205.603	FT	2003 TR Y	Combined with other paraciticides (Fendbendazole and Ivermectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP	05 19 15 Vote 06 02 15	
Hydrated lime §205.603(b)	TF	1995 TAP	TR expected Jan/Feb 2015. TR sent to LS 03 27 15. Suff due ASAP. TR found suff 04 07 15	08 04 15	
Hydrogen peroxide §205.603(a)	CW	Y (for Crops 205.601(a))	TR for Crops expected Jan/Feb 2015	06 16 15	
Iodine 205.603(a)(14) and 205.603(b)(2)	JR	1994 TAP 2015 TR	TR expected Jan/Feb 2015. TR sent to LS 01 07 15. Suff due 03 06 15. TR found sufficient 01 20 15	07 21 15	
Mineral oil §205.603	PD	2002 TR 2015 TR	TR expected Jan/Feb 2015	08 18 15	
Vitamins §205.603(d)	CW	2015 Lmtd scope	TR expected Jan/Feb 2015	06 02 15	

2017 Sunsets (No TRs) Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**New TR reqst?**	**Notes**	**Discussion scheduled**	**Meeting**
Aspirin §205.603	JR	N (04 01)		05 19 15	Review: Fall 2015
Atropine §205.603	TF	N (06 03)		08 18 15	
Butorphanol §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	06 23 15	
Chlorine Mtrls: Calcium hypochlorite §205.603	FT	N (06 17)		07 21 15	
Chlorine Mtrls: Chlorine dioxide	FT	N (06 17)		07 21 15	

Chlorine Mtrls: Sodium hypochlorite §205.603	AS	N (06 17)		07 21 15	
EPA List 4 - Inerts of Minimal Concern §205.603	TF	N (06 03)	TR for NPEs sent to CS 01 30 15. No action by LS needed.	05 26 15	
Flunixin §205.603	TF	N (06 03)		08 18 15	
Formic Acid §205.603	CBo	N (06 17)		07 07 15	
Furosemide §205.603	TF	N (06 03)		08 18 15	
Glucose §205.603	CW	N (07 01)		06 16 15	
Glycerine §205.603	TF	N (06 03)		05 26 15	
Lidocaine §205.603	JR	N (04 01)		05 19 15	
Magnesium hydroxide §205.603	TF	N		08 25 15	
Magnesium sulfate §205.603	TF	N		08 25 15	
Methionine §205.603	TF	N		06 02 15	
Oxytocin §205.603	CW	N (07 01)		08 04 15	
Peracetic acid §205.603	JR	N (04 01)		08 18 15	
Phosphoric acid §205.603	JR	N (04 01)		05 26 15	
Poloxalene §205.603	FT	N		06 16 15	
Procaine §205.603	JR	N (04 01)		05 19 15	
Strychnine 205.604	JR	N (04 01)		05 26 15	
Sucrose octanoate esters §205.603	FT	N		06 16 15	
Trace minerals §205.603	FT	N		08 04 15	
Vaccines §205.603	JR	N (04 01)		05 26 15	
Tolazoline §205.603	FT	2002 TR Y	New TR requested. Not contracted.	08 04 15	
Xylazine §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	08 04 15	

Other projects					
Project	**Contact**	**TR Reqst?**	**Notes**	**Vote**	**Meeting**

* Yellow highlight indicates committee action needed *Highlight indicates review completion

Agenda

- Approve notes from May 19, 2015
- Approve notes from May 26, 2015
- Acid-Activated Bentonite (AS) - Petition sufficiency due June 2
- 2017 sunsets - (FT) Review and vote on 4 proposals (finish parasiticides + 3 others)
- 2017 sunsets - (CW) Vitamins
- 2017 sunsets - (TF) MET
- Discuss proposals for annotation changes.
- Adjourn

Discussion

- **Notes from the May 19, 2015** approved as is
- **Notes from the May 26, 2015** approved as is
- **Acid-Activated Bentonite -** The LS determined the petition to be sufficient via email in April. The Chair will relay that information to the National List Manager.
- **2017 sunsets - (FT). Review and vote**
    - **Parasiticides.** The NOSB Chair relayed information gleaned via verbal communication she had with a veterinarian regarding Ivermectin. The lead reviewer summarized public comment, which was mixed. Each of the parasiticides has different uses so the group discussed and will vote on them individually. Ivermectin was found to fail the OFPA criteria regarding environmental impacts, because it is harmful to dung beetles and soil, while Fendbendazole was found to satisfy all OFPA criteria. Moxidectin is less harmful to dung beetles than Ivermectin, and is labeled for sheep. It is also available in topical formulations. Some members favor removal of Moxidectin while others support the need for two types of parasiticides that can be used in rotation to prevent resistance. A member reminded the group that the Livestock Subcommittee plans to develop a proposal to alter the withholding period for Fendbendazole. Members discussed the use of paraciticides in sheep and the NOP noted that they returned the TR to the contractor with a request for edits about usage.

      Motion to remove **Ivermectin** from §205.603
      Motion by: FT
      Seconded by: JR
      Additional Discussion: none
      Yes: 5 No: 1 Abstain: 0 Absent: 2 Recuse: 0

      Motion to remove **Moxidectin** from §205.603
      Motion by: FT
      Seconded by: JR
      Additional Discussion: none

Yes: 4 No: 2 Abstain: 0 Absent: 2 Recuse: 0

Motion to remove **Fendbendazole** from §205.603
Motion by: FT
Seconded by: JR
Additional Discussion: none
Yes: 0 No: 6 Abstain: 0 Absent: 2 Recuse: 0

- **2017 sunsets - (FT)**. **Chlorhexidine, Poloxalene, Sucrose octanoate esters** - Deferred to next call.
- **2017 sunsets - (CW). Vitamins.** Vitamins are essential for animal health, but not all can be supplied in feed. Commenters were in favor of keeping vitamins on the list.
  Motion to remove Vitamins from §205.603(d)
  Motion by: CW
  Seconded by: JR
  Additional Discussion: none
  Yes: 0 No: 6 Abstain: 0 Absent: 2 Recuse: 0

- **2017 sunsets - (TF). MET.** The lead summarized the sunset review. Members discussed what to include and how to present the sunset review in light of the recent petition for the same substance. The majority of members felt the two should be kept distinct, and the sunset review document should be shortened. The lead will edit/shorten the draft document, include links to historical information from the petition review, and recirculate it to members.

  Motion to remove Methionine from §205.603
  Motion by: TF
  Seconded by: CBo
  Additional Discussion: none
  Yes: 1 No: 5 Abstain: 0 Absent: 2 Recuse: 0

- **Proposals for annotation changes.** The LS discussed several materials for which they will propose annotation changes, which may be done at the same meeting as the sunset review, but as separate proposals. Materials include Lidocaine, Procaine, and Iodine and the 3 parasiticides. For example, the LS will propose to shorten the withholding period for Lidocaine. New science and research indicates that the withholding period is far too long and can be shortened, and public comment indicated strong support for this change. An annotation change regarding NPEs in Iodine was also discussed. The LS would like to add this to the work agenda and will send a request to the NOP in support of this.
- **The meeting was adjourned**

Previous LS Notes

Future Call Schedule:

May 26, 2015 - additional call

2017 sunsets - Strychnine (JR)
2017 sunsets - Glycerin (TF)
2017 sunsets - Paraciticides (FT) review proposals and vote
2017 sunsets - EPA List 4 Inerts discuss review and vote

Aluminum sulfate (petitioned) - discuss review

June 2, 2015

Acid-Activated Bentonite - TR sufficiency
2017 sunsets - (FT) Review and vote on 4 proposals (finish parasiticides, + 3)
2017 sunsets - (CW) Vitamins
2017 sunsets - (TF) MET
Discuss proposals for annotation changes

June 16, 2015

2017 sunsets - (FT) Review and vote on 3 reviews (Chlorhexidine, Poloxalene, Sucrose octanoate esters)
Glucose, Hydrogen peroxide, Isopropanol (CW)

June 23, 2015 - additional call

June 30, 2015 - additional call

July 7, 2015

July 21, 2015

Iodine (JR) - discuss proposal & vote
Excipients (JR) - discuss proposal & vote

July 28, 2015 - additional call

August 4, 2015

Hydrated Lime (TF)

August 18, 2015

Atropine, mineral oil (PD)
Flunixin and Furosemide (AS)

August 25, 2015 - additional call

September 1, 2015

September 15, 2015

October 6, 2015

October 20, 2015

November 3, 2015

November 17, 2015

December 1, 2015

December 15, 2015

Fall 2015 Milestones	Target date
NOP - Complete Fall 2015 NOSB meeting tentative agenda	July 8, 2015
Request for TRs for 2018 sunset materials	July 15, 2015
NOSB - Fall 2015 proposals due to NOP	Aug 26, 2015
NOP - Post proposals, Publish FRN, Open public comment	Sep 8, 2015
Discuss work agendas on ES call	Sep 11, 2015
Public comment closes	Oct 5, 2015
Work agendas finalized on ES call (last call before fall meeting)	Oct 8, 2015
NOP - Send compiled public comments to NOSB	Oct 13, 2015
Fall 2015 NOSB meeting - Stowe, VT	Oct 26 - 29, 2015

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy or regulations. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

National Organic Standards Board (NOSB)
Livestock/Aquaculture Subcommittee (LS) Meeting Notes
Tuesday, June 16, 2015 3:00pm ET

Attending: Tracy Favre, Chair (TF); Jean Richardson (JR); Ashley Swaffar (AS), Co-VC; Francis Thicke (FT); Colehour Bondera (CBo); Calvin Walker, Vice Chair (CW)
Absent: Mac Stone (MS); Paula Daniels (PD)
Staff: Michelle Arsenault (MA); Emily Brown Rosen (EBR)

Work Agenda

Petitioned Materials						
Substance	**Nat'l List §**	**Contact**	**TR requested**	**Notes**	**Vote**	**Meeting**
Aluminum Sulfate (PDF)	205.603	JR	Y	The petitioner requests two related allowances on the NL: (1) treatment of poultry litter (205.603) and (2) application of treated poultry litter to the field (205.601). Sent to LS 03 12 14. TR request sent to NOP 06 18 14. TR expected Jan 2015. TRs (2) sent to LS 05 15 15. Suff due 07 15 15		Proposal Fall 2015
Sodium Bisulfate	205.603	JR	2015	Petition sent to LS 05 27 14. Q's for petitioner/TR request due 07 28 14. TR request sent to NOP 08 06 14. TR expected Jan 2015. TR sent to LS 05 14 15. Suff due 07 14 15. TR found suff 05 19 15		TBD
Acid-Activated Bentonite	205.603	AS		Petition sent to LS 04 03 15. Q's for petitioner. TR request due 06 02 15. Petition found suff 06 02 15. Determine need for TR Two related petitions pending for treatment of poultry litter: **sodium bisulfate** and **aluminum sulfate**. TAP for Kaolin Clay and Bentonite 1995		TBD

Aquaculture-CO_2, (for aquatic plants)	205.609	TF/CBo	N	Petition sent to CS 5 30 12. Will rqst modification from petitioner (for use pattern). Updated petition was deemed sufficient. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Chlorine (for aquatic plants)	205.609	FT	2011 Crops TR 2006 TR 1995 TAP	Petition sent to CS on 5 30 12. Determine petition sufficiency. CS requested clarification from petitioner 11 20 12. 2011 TR deemed suff for this review 11 20 12. Additional aquaculture TR deemed unnecessary. Sent follow up questions to petitioner. Response deemed sufficient.	NA	Proposal TBD
Aquaculture-Micronutrients (for aquatic plants)	205.609	FT	2010 TR (Nickel) 6/2013 Minerals TR	Petition sent to CS on 06 08 12. Petition sufficiency response due 08 08 12? CS sent request to NL Mgr 12 04 12 for additional info. Questions clarified by petitioner. Petition found sufficient 06 18 13 and 07 02 13. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Lignin sulfonate (chelating agent for aquatic plants) (for aquatic plants) CAS #s 9009-75-0, 8062-15-5, 8061-51-6	205.609	JR	2/2011 Crops TR 7/2013 TR Aquatic Animals TR	Petition sent to CS on 07 03 12. Petition Sufficiency Response due 09 04 12. CS sent request to NL Mgr 12 04 12 for additional info and TR. Questions clarified by petitioner. Petition found sufficient 6 18 13 and 07 02 13.	NA	Proposal TBD
Aquaculture-Vitamins (B1, B12, H) for aquatic plants	205.609	CW	4/2013 Aquatic Animals TR	Petition sent to CS 08 10 12. Petition Sufficiency response due 10 10 12. Petition found sufficient 06 18 13.	NA	Proposal TBD
Aquaculture - Biologics: Vaccines for Aquatic Animals	205.611	JR	2011 TR (Vaccines made from GMOs)	Petition sent to LS 06 14 12. Petition found sufficient and TR requested on 05 21 13. (NOP note: TR sent to LS 01 24 14. TR deemed sufficient 02 03 14	NA	Proposal TBD

Aquaculture - Chlorine (for aquatic animals)	205.611	FT	No Crops 2011 Crops 2006 Crops 1995 Livestock 2006 Handling 2006	Petition sent to LS on 05 30 12. Petition found sufficient 07 03 12. No TR requested	NA	Proposal TBD
Aquaculture – Tocopherols (for aquatic animals)	205.611	TF/CBo	2013 TR 1995 TAP rvw	Petition sent to LS on 05 30 12. Petition found sufficient 08 06 12. TR requested 08 06 12. Draft TR sent to LS on 04 16 13. TR found sufficient 06 04 13	NA	Proposal TBD
Aquaculture – Vitamins (for aquatic animals)	205.611	CW/FT	Yes 2013 TR	Petition sent to LS on 05 30 12. Response due ~07 30 12. Petition found sufficient 08 06 12. Requested joint TR with Minerals 08 06 12. TR sent to LS 04 29 13. TR found suff 06 18 13.	NA	Proposal TBD
Aquaculture - Trace Minerals (for aquatic animals)	205.611	CW/FT	2013 TR	Petition sent to LS on 06 08 12. Response due ~08 08 12. Petition found sufficient 08 06 12? Requested joint TR with Vitamins 08 06 12. TR sent to LS 06 25 13. Suff due 08 27 13. TR found sufficient 07 16 13. Fall 2013 meeting cancelled.	NA	Proposal TBD

2017 Sunsets TR Requests Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**TR requested**	**Notes**	**Discussion scheduled:**	**Meeting**
Ethanol §205.603	TF	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	08 18 15	Review: Fall 2015
Isopropanol §205.603	CW	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	06 16 16	
Chlorhexidine §205.603	FT/CW	2010 TR Y	TR requested 08 15 14. TR expected Jan/Feb 2015. TR sent to LS 02 26 15. Suff due 03 06 15. TR found suff 03 03 15.	06 16 15	
Copper sulfate §205.603	TF	1995 TAP 2015 Lmtd Scope	TR in development (expected Dec 2014). TR sent to LS 02 13 15. Suff due 03 06 15. TR found suff 02 17 15	05 26 15	

Electrolytes §205.603	CW	1995 TAP 2015 TR	TR expected Jan/Feb 2015. TR sent to LS 03 27 15. Suff due ASAP. TR found suff 04 07 15	08 04 15	
Excipients §205.603	JR	Y	TR expected Jan/Feb 2015. TR sent to LS 02 26 15. Suff due 03 06 15. TR found suff 03 03 15.	06 23 15	
Fenbendazole §205.603	FT	1999 TR Y	Combined with other paraciticides (Moxidectin and Ivermectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP	05 19 15 Vote 06 02 15	
Ivermectin §205.603	FT	1999 TR Y	Combined with other paraciticides (Fendbendazole and Moxidectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP	05 19 15 Vote 06 02 15	
Moxidectin §205.603	FT	2003 TR Y	Combined with other paraciticides (Fendbendazole and Ivermectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP	05 19 15 Vote 06 02 15	
Hydrated lime §205.603(b)	TF	1995 TAP	TR expected Jan/Feb 2015. TR sent to LS 03 27 15. Suff due ASAP. TR found suff 04 07 15	06 23 15	
Hydrogen peroxide §205.603(a)	CW	Y (for Crops 205.601(a))	TR for Crops expected Jan/Feb 2015	06 16 15	
Iodine 205.603(a)(14) and 205.603(b)(2)	JR	1994 TAP 2015 TR	TR expected Jan/Feb 2015. TR sent to LS 01 07 15. Suff due 03 06 15. TR found sufficient 01 20 15	06 23 15	
Mineral oil §205.603	PD	2002 TR 2015 TR	TR expected Jan/Feb 2015	08 18 15	
Vitamins §205.603(d)	CW	2015 Lmtd scope	TR expected Jan/Feb 2015	06 02 15	

2017 Sunsets (No TRs) Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**New TR reqst?**	**Notes**	**Discussion scheduled**	**Meeting**
Aspirin §205.603	JR	N (04 01)		05 19 15	Review: Fall 2015
Atropine §205.603	TF	N (06 03)		08 18 15	
Butorphanol §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	06 23 15	
Chlorine Mtrls: Calcium hypochlorite §205.603	FT	N (06 17)		07 21 15	
EPA List 4 - Inerts of Minimal Concern §205.603	TF	N (06 03)	TR for NPEs sent to CS 01 30 15. No action by LS needed.	05 26 15	

Flunixin §205.603	TF	N (06 03)		08 18 15	
Formic Acid §205.603	CBo	N (06 17)		07 07 15	
Furosemide §205.603	TF	N (06 03)		08 18 15	
Glucose §205.603	CW	N (07 01)		06 16 15	
Glycerine §205.603	TF	N (06 03)		05 26 15	
Lidocaine §205.603	JR	N (04 01)		05 19 15	
Magnesium hydroxide §205.603	TF	N		08 25 15	
Magnesium sulfate §205.603	TF	N		08 25 15	
Methionine §205.603	TF	N		06 02 15	
Oxytocin §205.603	CW	N (07 01)		08 04 15	
Peracetic acid §205.603	JR	N (04 01)		08 18 15	
Phosphoric acid §205.603	JR	N (04 01)		05 26 15	
Poloxalene §205.603	FT	N		06 16 15	
Procaine §205.603	JR	N (04 01)		05 19 15	
Strychnine 205.604	JR	N (04 01)		05 26 15	
Sucrose octanoate esters §205.603	FT	N		06 16 15	
Trace minerals §205.603	FT	N		06 23 15	
Vaccines §205.603	JR	N (04 01)		05 26 15	
Tolazoline §205.603	FT	2002 TR Y	New TR requested. Not contracted.	08 04 15	
Xylazine §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	08 04 15	

Other projects

Project	Contact	TR Reqst?	Notes	Vote	Meeting

* Yellow highlight indicates committee action needed *Highlight indicates review completion

Agenda

- Approve notes from June 2, 2015
- 2017 sunsets - (FT) Review and vote: Chlorhexidine, Poloxalene, Sucrose octanoate esters
- 2017 sunsets - (CW) Review and vote: Glucose, Hydrogen peroxide, Isopropanol
- Adjourn

Discussion

- **Notes from the June 2, 2015** approved with no changes.
- **2017 sunsets - (FT)**
    - **Chlorhexidine.** Both the lead and the LS chair summarized the material. Public comment was mixed and the LS received no answers to the question about use.

      Motion to remove Chlorhexidine from §205.603(a)
      Motion by: FT
      Seconded by: CW
      Additional Discussion: none
      Yes: 0 No: 6 Abstain: 0 Absent: 2 Recuse: 0

    - **Poloxalene.** Poloxalene is a fast-acting synthetic material approved for emergency treatment of bloat. The LS received few comments, which were mixed. One commenter indicated that vegetable oil can be used as an alternative, and if vegetable oil didn't work, the next step would be surgery. The LS Chair noted that bloat is a serious problem and can cause death, and therefore recommends that Poloxalene remain on the list as an alternative.

      Motion to remove Poloxalene from §205.603(a)
      Motion by: FT
      Seconded by: CBo
      Additional Discussion: none
      Yes: 1 No: 5 Abstain: 0 Absent: 2 Recuse: 0

    - **Sucrose octanoate esters (SOE).** SOE is an EPA-registered biopesticide used as an insecticide to control insects, including mites, on honey bees. Fairly benign and biodegrade rapidly. The LS received few comments, and those that were received were supportive.

      Motion to remove Sucrose octanoate esters from § §205.603(b)
      Motion by: FT
      Seconded by: JR
      Additional Discussion: none
      Yes: 0 No: 6 Abstain: 0 Absent: 2 Recuse: 0

- **2017 sunsets - (CW)**
    - **Glucose.** The lead summarized the material and noted that for the review he used the 1995 TAP review, 2015 public comments and previous NOSB recommendations. Glucose, which is a sugar, was added to the list as synthetic. The NOP noted that there is

an OFPA exemption for medical treatments. Glucose is used in the treatment of ketosis in livestock, and is essential. Commenters were overwhelming supportive of relisting.

Motion to remove Glucose from §205.603(a)
Motion by: CW
Seconded by: JR
Additional Discussion: none
Yes: 0 No: 6 Abstain: Absent: 2 Recuse:

- **Hydrogen peroxide.** Used as a disinfectant. The lead looked at previous NOSB recommendations and public comment. A large spectrum of stakeholders support relisting.

  Motion to remove Hydrogen peroxide from §205.603(a)
  Motion by: CW
  Seconded by: JR
  Additional Discussion: none
  Yes: 0 No: 6 Abstain: 0 Absent: 2 Recuse: 0

- **Isopropanol.** The lead summarized the material and noted that for the review he used the previous TAP review, public comments and NOSB recommendations. Isopropanol is widely used and needed. Public commenters were supportive of relisting.

  Motion to remove Isopropanol from §205.603
  Motion by: CW
  Seconded by: JR
  Additional Discussion: none
  Yes: 0 No: 6 Abstain: 0 Absent: 2 Recuse: 0

- **The meeting was adjourned**

Previous LS Notes

Future Call Schedule:

June 2, 2015

Acid-Activated Bentonite - TR sufficiency
2017 sunsets - (FT) Review and vote on 4 proposals (finish parasiticides, + 3)
2017 sunsets - (CW) Vitamins
2017 sunsets - (TF) MET
Discuss proposals for annotation changes

June 16, 2015

2017 sunsets - (FT) Review and vote on 3 reviews (Chlorhexidine, Poloxalene, Sucrose octanoate esters)
2017 sunsets - (CW) Glucose, Hydrogen peroxide, Isopropanol

June 23, 2015 - additional call

Aluminum Sulfate (JR) - TR sufficiency
Acid activated bentonite (AS) - Determine need for TR
Iodine (JR) - Discuss proposal & vote

Excipients (JR) - Discuss proposal & vote
Hydrated Lime (TF) - Discuss proposal & vote
Trace minerals (TF) - Discuss proposal & vote
Butorphanol (CBo) - Discuss proposal & vote

July 7, 2015
July 21, 2015
July 28, 2015 - additional call
August 4, 2015
August 18, 2015

Atropine, mineral oil (PD)
Flunixin and Furosemide (AS)

August 25, 2015 - additional call
September 1, 2015
September 15, 2015
October 6, 2015
October 20, 2015
November 3, 2015
November 17, 2015
December 1, 2015
December 15, 2015

Fall 2015 Milestones	Target date
NOP - Complete Fall 2015 NOSB meeting tentative agenda	July 8, 2015
Request for TRs for 2018 sunset materials	July 15, 2015
NOSB - Fall 2015 proposals due to NOP	Aug 26, 2015
NOP - Post proposals, Publish FRN, Open public comment	Sep 8, 2015
Discuss work agendas on ES call	Sep 11, 2015
Public comment closes	Oct 5, 2015
Work agendas finalized on ES call (last call before fall meeting)	Oct 8, 2015
NOP - Send compiled public comments to NOSB	Oct 13, 2015
Fall 2015 NOSB meeting - Stowe, VT	Oct 26 - 29, 2015

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy or regulations. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

National Organic Standards Board (NOSB)
Livestock/Aquaculture Subcommittee (LS) Meeting Notes
Tuesday, June 23, 2015 3:00pm ET

Attending: Tracy Favre, Chair (TF); Jean Richardson (JR); Ashley Swaffar (AS), Co-VC; Francis Thicke (FT); Colehour Bondera (CBo)
Absent: Paula Daniels (PD); Calvin Walker, Vice Chair (CW); Mac Stone (MS)
Staff: Michelle Arsenault (MA); Emily Brown Rosen (EBR)

Work Agenda

Petitioned Materials						
Substance	**Nat'l List §**	**Contact**	**TR requested**	**Notes**	**Vote**	**Meeting**
Aluminum Sulfate (PDF)	205.603	JR	2015	The petitioner requests two related allowances on the NL: (1) treatment of poultry litter (205.603) and (2) application of treated poultry litter to the field (205.601). Sent to LS 03 12 14. TR request sent to NOP 06 18 14. TR expected Jan 2015. TRs (2) sent to LS 05 15 15. Suff due 07 15 15. TR found suff 06 23 15		Proposal Fall 2015
Sodium Bisulfate	205.603	JR	2015	Petition sent to LS 05 27 14. Q's for petitioner/TR request due 07 28 14. TR request sent to NOP 08 06 14. TR expected Jan 2015. TR sent to LS 05 14 15. Suff due 07 14 15. TR found suff 05 19 15		TBD
Acid-Activated Bentonite	205.603	AS	Y Lmtd Scope	Petition sent to LS 04 03 15. Q's for petitioner. TR request due 06 02 15. Petition found suff 06 02 15. Determine need for TR. Rqst for Lmtd scope TR sent 06 23 15 Two related petitions pending for treatment of poultry litter: **sodium bisulfate** and **aluminum sulfate**. TAP for Kaolin Clay and Bentonite 1995		TBD

Aquaculture-CO_2, (for aquatic plants)	205.609	TF/CBo	N	Petition sent to CS 5 30 12. Will rqst modification from petitioner (for use pattern). Updated petition was deemed sufficient. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Chlorine (for aquatic plants)	205.609	FT	2011 Crops TR 2006 TR 1995 TAP	Petition sent to CS on 5 30 12. Determine petition sufficiency. CS requested clarification from petitioner 11 20 12. 2011 TR deemed suff for this review 11 20 12. Additional aquaculture TR deemed unnecessary. Sent follow up questions to petitioner. Response deemed sufficient.	NA	Proposal TBD
Aquaculture-Micronutrients (for aquatic plants)	205.609	FT	2010 TR (Nickel) 6/2013 Minerals TR	Petition sent to CS on 06 08 12. Petition sufficiency response due 08 08 12? CS sent request to NL Mgr 12 04 12 for additional info. Questions clarified by petitioner. Petition found sufficient 06 18 13 and 07 02 13. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Lignin sulfonate (chelating agent for aquatic plants) (for aquatic plants) CAS #s 9009-75-0, 8062-15-5, 8061-51-6	205.609	JR	2/2011 Crops TR 7/2013 TR Aquatic Animals TR	Petition sent to CS on 07 03 12. Petition Sufficiency Response due 09 04 12. CS sent request to NL Mgr 12 04 12 for additional info and TR. Questions clarified by petitioner. Petition found sufficient 6 18 13 and 07 02 13.	NA	Proposal TBD
Aquaculture-Vitamins (B1, B12, H) for aquatic plants	205.609	CW	4/2013 Aquatic Animals TR	Petition sent to CS 08 10 12. Petition Sufficiency response due 10 10 12. Petition found sufficient 06 18 13.	NA	Proposal TBD
Aquaculture - Biologics: Vaccines for Aquatic Animals	205.611	JR	2011 TR (Vaccines made from GMOs)	Petition sent to LS 06 14 12. Petition found sufficient and TR requested on 05 21 13. (NOP note: TR sent to LS 01 24 14. TR deemed sufficient 02 03 14	NA	Proposal TBD

Aquaculture - Chlorine (for aquatic animals)	205.611	FT	No Crops 2011 Crops 2006 Crops 1995 Livestock 2006 Handling 2006	Petition sent to LS on 05 30 12. Petition found sufficient 07 03 12. No TR requested	NA	Proposal TBD
Aquaculture – Tocopherols (for aquatic animals)	205.611	TF/CBo	2013 TR 1995 TAP rvw	Petition sent to LS on 05 30 12. Petition found sufficient 08 06 12. TR requested 08 06 12. Draft TR sent to LS on 04 16 13. TR found sufficient 06 04 13	NA	Proposal TBD
Aquaculture – Vitamins (for aquatic animals)	205.611	CW/FT	Yes 2013 TR	Petition sent to LS on 05 30 12. Response due ~07 30 12. Petition found sufficient 08 06 12. Requested joint TR with Minerals 08 06 12. TR sent to LS 04 29 13. TR found suff 06 18 13.	NA	Proposal TBD
Aquaculture - Trace Minerals (for aquatic animals)	205.611	CW/FT	2013 TR	Petition sent to LS on 06 08 12. Response due ~08 08 12. Petition found sufficient 08 06 12? Requested joint TR with Vitamins 08 06 12. TR sent to LS 06 25 13. Suff due 08 27 13. TR found sufficient 07 16 13. Fall 2013 meeting cancelled.	NA	Proposal TBD

2017 Sunsets TR Requests Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**TR requested**	**Notes**	**Discussion scheduled:**	**Meeting**
Ethanol §205.603	TF	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	08 18 15	Review: Fall 2015
Isopropanol §205.603	CW	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	06 16 16	
Chlorhexidine §205.603	FT/CW	2010 TR Y	TR requested 08 15 14. TR expected Jan/Feb 2015. TR sent to LS 02 26 15. Suff due 03 06 15. TR found suff 03 03 15.	06 16 15	
Copper sulfate §205.603	TF	1995 TAP 2015 Lmtd Scope	TR in development (expected Dec 2014). TR sent to LS 02 13 15. Suff due 03 06 15. TR found suff 02 17 15	05 26 15	

Electrolytes §205.603	CW	1995 TAP 2015 TR	TR expected Jan/Feb 2015. TR sent to LS 03 27 15. Suff due ASAP. TR found suff 04 07 15	08 04 15	
Excipients §205.603	JR	Y	TR expected Jan/Feb 2015. TR sent to LS 02 26 15. Suff due 03 06 15. TR found suff 03 03 15.	06 23 15	
Fenbendazole §205.603	FT	1999 TR Y	Combined with other paraciticides (Moxidectin and Ivermectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP	05 19 15 Vote 06 02 15	
Ivermectin §205.603	FT	1999 TR Y	Combined with other paraciticides (Fendbendazole and Moxidectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP	05 19 15 Vote 06 02 15	
Moxidectin §205.603	FT	2003 TR Y	Combined with other paraciticides (Fendbendazole and Ivermectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP	05 19 15 Vote 06 02 15	
Hydrated lime §205.603(b)	TF	1995 TAP	TR expected Jan/Feb 2015. TR sent to LS 03 27 15. Suff due ASAP. TR found suff 04 07 15	06 23 15	
Hydrogen peroxide §205.603(a)	CW	Y (for Crops 205.601(a))	TR for Crops expected Jan/Feb 2015	06 16 15	
Iodine 205.603(a)(14) and 205.603(b)(2)	JR	1994 TAP 2015 TR	TR expected Jan/Feb 2015. TR sent to LS 01 07 15. Suff due 03 06 15. TR found sufficient 01 20 15	06 23 15	
Mineral oil §205.603	PD	2002 TR 2015 TR	TR expected Jan/Feb 2015	08 18 15	
Vitamins §205.603(d)	CW	2015 Lmtd scope	TR expected Jan/Feb 2015	06 02 15	

2017 Sunsets (No TRs) Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**New TR reqst?**	**Notes**	**Discussion scheduled**	**Meeting**
Aspirin §205.603	JR	N (04 01)		05 19 15	Review: Fall 2015
Atropine §205.603	TF	N (06 03)		08 18 15	
Butorphanol §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	07 07 15	
Chlorine Mtrls: Calcium hypochlorite §205.603	FT	N (06 17)		07 21 15	
EPA List 4 - Inerts of Minimal Concern §205.603	TF	N (06 03)	TR for NPEs sent to CS 01 30 15. No action by LS needed.	05 26 15	

Flunixin §205.603	TF	N (06 03)		08 18 15	
Formic Acid §205.603	CBo	N (06 17)		07 07 15	
Furosemide §205.603	TF	N (06 03)		08 18 15	
Glucose §205.603	CW	N (07 01)		06 16 15	
Glycerine §205.603	TF	N (06 03)		05 26 15	
Lidocaine §205.603	JR	N (04 01)		05 19 15	
Magnesium hydroxide §205.603	TF	N		08 25 15	
Magnesium sulfate §205.603	TF	N		08 25 15	
Methionine §205.603	TF	N		06 02 15	
Oxytocin §205.603	CW	N (07 01)		08 04 15	
Peracetic acid §205.603	JR	N (04 01)		08 18 15	
Phosphoric acid §205.603	JR	N (04 01)		05 26 15	
Poloxalene §205.603	FT	N		06 16 15	
Procaine §205.603	JR	N (04 01)		05 19 15	
Strychnine 205.604	JR	N (04 01)		05 26 15	
Sucrose octanoate esters §205.603	FT	N		06 16 15	
Trace minerals §205.603	FT	N		06 23 15	
Vaccines §205.603	JR	N (04 01)		05 26 15	
Tolazoline §205.603	FT	2002 TR Y	New TR requested. Not contracted.	08 04 15	
Xylazine §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	08 04 15	

Other projects

Project	Contact	TR Reqst?	Notes	Vote	Meeting
Annotation Changes NPEs Trace Minerals Procaine			Will be discussed at ES meeting 7-10-15		

Lidocaine					

* Yellow highlight indicates committee action needed *Highlight indicates review completion

Agenda

- Approve notes from June 16, 2015
- Aluminum Sulfate (JR) - TR sufficiency
- Acid activated bentonite (AS) - Determine need for TR
- Iodine (JR) - Discuss proposal & vote
- Excipients (JR) - Discuss proposal & vote
- Hydrated Lime (TF) - Discuss proposal & vote
- Trace minerals (TF) - Discuss proposal & vote
- Butorphanol (CBo) - Discuss proposal & vote
- Adjourn

Discussion

- **Notes from the June 16, 2015** call were approved with no changes.
- **Aluminum Sulfate (JR) - TR sufficiency.** The LS found TR sufficient and will notify the NOP of such.
- **Acid activated bentonite (AS).** Used as a litter amendment. The lead opened a discussion about how to proceed given that there are three other materials used in litter management currently under review. The members discussed this and chose to request a limited scope TR. The lead will pose questions to include in the TR and send them to the LS Chair to forward to the NOP.
- **Iodine (JR).** The lead noted that the LS has already discussed this material. Iodine is a critical substance and has many uses, including teat dips. The group discussed the efforts by the dairy industry to remove Nonylphenol ethoxylates (NPEs) from teat dips, and the lead indicated that she has already seen labels that say "NPE free". The LS proposes to leave iodine on the list at this time.

  Motion to remove iodine from 205.603(a)(14) and 205.603(b)(2)
  Motion by: JR
  Seconded by: HA
  Additional Discussion: A member asked if they should consider an annotation change as they have language in the review regarding that. Since the industry is currently addressing this, both the NOP and several LS members discussed revisiting the idea of an annotation change at the next NOSB meeting. The lead agreed to adjust language to indicate LS is planning to address an annotation change in the future.
  Yes: 0 No: 6 Abstain: 0 Absent: 2 Recuse: 0

- **Excipients (JR). T**he lead summarized the material and difficulties associated with this review. There are approximately 8000 substances that may qualify as permitted excipients, and there isn't a comprehensive list. Most chemicals used as excipients in organic livestock production are identified in the FDA's EAFUS: Food Additive Database, and are considered Generally Regarded as Safe (GRAS). Public commenters were supportive of the relisting of excipients.

  Motion to remove Excipients from 205.603(f)
  Motion by: JR

Seconded by: CW
Additional Discussion: The lead clarified for one of the members that the NOSB didn't receive much feedback, and the comments they received were supportive of relisting..
Yes: 0 No: 6 Abstain: 0 Absent: 2 Recuse: 0

- **Hydrated Lime (TF).** The group discussed the draft review. The lead noted that Hydrated lime has various uses, the NOSB received few comments but the comments were very useful, and the commenters were in support of relisting.

  Motion to remove Hydrated Lime from §205.603(b)
  Motion by: TF
  Seconded by: CW
  Additional Discussion: The group discussed application of hydrated lime for sheep mange and foot rot. A member questioned the impact on soil, but hydrated lime is is considered a synthetic soil amendment and is not allowed for that use. .
  Yes: 0 No: 6 Abstain: 0 Absent: 2 Recuse: 0

- **Trace minerals (TF) -** Trace minerals are important for the maintenance, growth, and reproduction in the healthy production of beef cattle, swine, and poultry. Public comment was overwhelmingly supportive of leaving trace minerals on the list.
  Motion to remove trace minerals from §205.603(e)
  Motion by: TF
  Seconded by: JR/CW
  Additional Discussion: A member noted that some of the minerals included in this list are in fact macro minerals and not trace (or micro) minerals. The NOP directed attention to the guidance on minerals, which is more descriptive and explicit. The members made some minor changes to the review document to clarify this.
  Yes: 0 No: 6 Abstain: 0 Absent: 2 Recuse: 0

- **Butorphanol (CBo).** Discussion and vote. Deferred to next call.

- **The meeting was adjourned**

Previous LS Notes

Future Call Schedule:

June 16, 2015

2017 sunsets - (FT) Review and vote on 3 reviews (Chlorhexidine, Poloxalene, Sucrose octanoate esters)
2017 sunsets - (CW) Glucose, Hydrogen peroxide, Isopropanol

June 23, 2015 - additional call

Aluminum Sulfate (JR) - TR sufficiency
Acid activated bentonite (AS) - Determine need for TR
Iodine (JR) - Discuss proposal & vote
Excipients (JR) - Discuss proposal & vote
Hydrated Lime (TF) - Discuss proposal & vote
Trace minerals (TF) - Discuss proposal & vote

Butorphanol (CBo) - Discuss proposal & vote

July 7, 2015

Butorphanol (CBo) - Discuss proposal & vote

Formic Acid (CBo) - Discuss proposal & vote

July 21, 2015

July 28, 2015 - additional call

August 4, 2015

August 18, 2015

Atropine, mineral oil (PD)

Flunixin and Furosemide (AS)

August 25, 2015 - additional call

September 1, 2015

September 15, 2015

October 6, 2015

October 20, 2015

November 3, 2015

November 17, 2015

December 1, 2015

December 15, 2015

Fall 2015 Milestones	Target date
NOP - Complete Fall 2015 NOSB meeting tentative agenda	July 8, 2015
Request for TRs for 2018 sunset materials	July 15, 2015
NOSB - Fall 2015 proposals due to NOP	Aug 26, 2015
NOP - Post proposals, Publish FRN, Open public comment	Sep 8, 2015
Discuss work agendas on ES call	Sep 11, 2015
Public comment closes	Oct 5, 2015
Work agendas finalized on ES call (last call before fall meeting)	Oct 8, 2015
NOP - Send compiled public comments to NOSB	Oct 13, 2015
Fall 2015 NOSB meeting - Stowe, VT	Oct 26 - 29, 2015

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy or regulations. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

National Organic Standards Board (NOSB)
Livestock/Aquaculture Subcommittee (LS) Meeting Notes
Tuesday, July 7, 2015 3:00pm ET

Attending: Tracy Favre, Chair (TF); Jean Richardson (JR); Ashley Swaffar (AS), Co-VC; Francis Thicke (FT); Colehour Bondera (CBo); Calvin Walker, Vice Chair (CW)
Absent: Mac Stone (MS)
Staff: Michelle Arsenault (MA); Emily Brown Rosen (EBR)

Work Agenda

Petitioned Materials						
Substance	**Nat'l List §**	**Contact**	**TR requested**	**Notes**	**Vote**	**Meeting**
Aluminum Sulfate (PDF)	205.603	JR	2015	The petitioner requests two related allowances on the NL: (1) treatment of poultry litter (205.603) and (2) application of treated poultry litter to the field (205.601). Sent to LS 03 12 14. TR request sent to NOP 06 18 14. TR expected Jan 2015. TRs (2) sent to LS 05 15 15. Suff due 07 15 15. TR found suff 06 23 15		Proposal Fall 2015
Sodium Bisulfate	205.603	JR	2015	Petition sent to LS 05 27 14. Q's for petitioner/TR request due 07 28 14. TR request sent to NOP 08 06 14. TR expected Jan 2015. TR sent to LS 05 14 15. Suff due 07 14 15. TR found suff 05 19 15		TBD
Acid-Activated Bentonite	205.603	AS	Y Lmtd Scope	Petition sent to LS 04 03 15. Q's for petitioner. TR request due 06 02 15. Petition found suff 06 02 15. Determine need for TR. Rqst for Lmtd scope TR sent to NOP 06 23 15 Two related petitions pending for treatment of poultry litter: **sodium bisulfate** and **aluminum sulfate**. TAP for Kaolin Clay and Bentonite 1995		TBD

Aquaculture-CO_2, (for aquatic plants)	205.609	TF/CBo	N	Petition sent to CS 5 30 12. Will rqst modification from petitioner (for use pattern). Updated petition was deemed sufficient. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Chlorine (for aquatic plants)	205.609	FT	2011 Crops TR 2006 TR 1995 TAP	Petition sent to CS on 5 30 12. Determine petition sufficiency. CS requested clarification from petitioner 11 20 12. 2011 TR deemed suff for this review 11 20 12. Additional aquaculture TR deemed unnecessary. Sent follow up questions to petitioner. Response deemed sufficient.	NA	Proposal TBD
Aquaculture-Micronutrients (for aquatic plants)	205.609	FT	2010 TR (Nickel) 6/2013 Minerals TR	Petition sent to CS on 06 08 12. Petition sufficiency response due 08 08 12? CS sent request to NL Mgr 12 04 12 for additional info. Questions clarified by petitioner. Petition found sufficient 06 18 13 and 07 02 13. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Lignin sulfonate (chelating agent for aquatic plants) (for aquatic plants) CAS #s 9009-75-0, 8062-15-5, 8061-51-6	205.609	JR	2/2011 Crops TR 7/2013 TR Aquatic Animals TR	Petition sent to CS on 07 03 12. Petition Sufficiency Response due 09 04 12. CS sent request to NL Mgr 12 04 12 for additional info and TR. Questions clarified by petitioner. Petition found sufficient 6 18 13 and 07 02 13.	NA	Proposal TBD
Aquaculture-Vitamins (B1, B12, H) for aquatic plants	205.609	CW	4/2013 Aquatic Animals TR	Petition sent to CS 08 10 12. Petition Sufficiency response due 10 10 12. Petition found sufficient 06 18 13.	NA	Proposal TBD
Aquaculture - Biologics: Vaccines for Aquatic Animals	205.611	JR	2011 TR (Vaccines made from GMOs)	Petition sent to LS 06 14 12. Petition found sufficient and TR requested on 05 21 13. (NOP note: TR sent to LS 01 24 14. TR deemed sufficient 02 03 14	NA	Proposal TBD

Aquaculture - Chlorine (for aquatic animals)	205.611	FT	No Crops 2011 Crops 2006 Crops 1995 Livestock 2006 Handling 2006	Petition sent to LS on 05 30 12. Petition found sufficient 07 03 12. No TR requested	NA	Proposal TBD
Aquaculture – Tocopherols (for aquatic animals)	205.611	TF/CBo	2013 TR 1995 TAP rvw	Petition sent to LS on 05 30 12. Petition found sufficient 08 06 12. TR requested 08 06 12. Draft TR sent to LS on 04 16 13. TR found sufficient 06 04 13	NA	Proposal TBD
Aquaculture – Vitamins (for aquatic animals)	205.611	CW/FT	Yes 2013 TR	Petition sent to LS on 05 30 12. Response due ~07 30 12. Petition found sufficient 08 06 12. Requested joint TR with Minerals 08 06 12. TR sent to LS 04 29 13. TR found suff 06 18 13.	NA	Proposal TBD
Aquaculture - Trace Minerals (for aquatic animals)	205.611	CW/FT	2013 TR	Petition sent to LS on 06 08 12. Response due ~08 08 12. Petition found sufficient 08 06 12? Requested joint TR with Vitamins 08 06 12. TR sent to LS 06 25 13. Suff due 08 27 13. TR found sufficient 07 16 13. Fall 2013 meeting cancelled.	NA	Proposal TBD

2017 Sunsets TR Requests Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**TR requested**	**Notes**	**Discussion scheduled:**	**Meeting**
Ethanol §205.603	TF	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	08 18 15	Review: Fall 2015
Isopropanol §205.603	CW	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	06 16 16	
Chlorhexidine §205.603	FT/CW	2010 TR Y	TR requested 08 15 14. TR expected Jan/Feb 2015. TR sent to LS 02 26 15. Suff due 03 06 15. TR found suff 03 03 15.	06 16 15	
Copper sulfate §205.603	TF	1995 TAP 2015 Lmtd Scope	TR in development (expected Dec 2014). TR sent to LS 02 13 15. Suff due 03 06 15. TR found suff 02 17 15	05 26 15	

Electrolytes §205.603	CW	1995 TAP 2015 TR	TR expected Jan/Feb 2015. TR sent to LS 03 27 15. Suff due ASAP. TR found suff 04 07 15	08 04 15	
Excipients §205.603	JR	Y	TR expected Jan/Feb 2015. TR sent to LS 02 26 15. Suff due 03 06 15. TR found suff 03 03 15.	06 23 15	
Fenbendazole §205.603	FT	1999 TR Y	Combined with other paraciticides (Moxidectin and Ivermectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP	05 19 15 Vote 06 02 15	
Ivermectin §205.603	FT	1999 TR Y	Combined with other paraciticides (Fendbendazole and Moxidectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP	05 19 15 Vote 06 02 15	
Moxidectin §205.603	FT	2003 TR Y	Combined with other paraciticides (Fendbendazole and Ivermectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP	05 19 15 Vote 06 02 15	
Hydrated lime §205.603(b)	TF	1995 TAP	TR expected Jan/Feb 2015. TR sent to LS 03 27 15. Suff due ASAP. TR found suff 04 07 15	06 23 15	
Hydrogen peroxide §205.603(a)	CW	Y (for Crops 205.601(a))	TR for Crops expected Jan/Feb 2015	06 16 15	
Iodine 205.603(a)(14) and 205.603(b)(2)	JR	1994 TAP 2015 TR	TR expected Jan/Feb 2015. TR sent to LS 01 07 15. Suff due 03 06 15. TR found sufficient 01 20 15	06 23 15	
Mineral oil §205.603	PD	2002 TR 2015 TR	TR expected Jan/Feb 2015	08 18 15	
Vitamins §205.603(d)	CW	2015 Lmtd scope	TR expected Jan/Feb 2015	06 02 15	

2017 Sunsets (No TRs) Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**New TR reqst?**	**Notes**	**Discussion scheduled**	**Meeting**
Aspirin §205.603	JR	N (04 01)		05 19 15	Review: Fall 2015
Atropine §205.603	TF	N (06 03)		08 18 15	
Butorphanol §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	07 07 15	
Chlorine Mtrls: Calcium hypochlorite §205.603	FT	N (06 17)		07 21 15	
EPA List 4 - Inerts of Minimal Concern §205.603	TF	N (06 03)	TR for NPEs sent to CS 01 30 15. No action by LS needed.	05 26 15	

Flunixin §205.603	TF	N (06 03)		08 18 15	
Formic Acid §205.603	CBo	N (06 17)		07 07 15	
Furosemide §205.603	TF	N (06 03)		08 18 15	
Glucose §205.603	CW	N (07 01)		06 16 15	
Glycerine §205.603	TF	N (06 03)		05 26 15	
Lidocaine §205.603	JR	N (04 01)		05 19 15	
Magnesium hydroxide §205.603	AS or TF?	N		08 25 15	
Magnesium sulfate §205.603	AS or TF?	N		08 25 15	
Methionine §205.603	TF	N		06 02 15	
Oxytocin §205.603	CW	N (07 01)		08 04 15	
Peracetic acid §205.603	JR	N (04 01)		08 18 15	
Phosphoric acid §205.603	JR	N (04 01)		05 26 15	
Poloxalene §205.603	FT	N		06 16 15	
Procaine §205.603	JR	N (04 01)		05 19 15	
Strychnine 205.604	JR	N (04 01)		05 26 15	
Sucrose octanoate esters §205.603	FT	N		06 16 15	
Trace minerals §205.603	FT	N		06 23 15	
Vaccines §205.603	JR	N (04 01)		05 26 15	
Tolazoline §205.603	FT	2002 TR Y	New TR requested. Not contracted.	08 04 15	
Xylazine §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	08 04 15	

Other projects

Project	Contact	TR Reqst?	Notes	Vote	Meeting
Annotation Changes NPEs Trace Minerals Procaine			will be discussed at ES meeting 7-10-15		

Lidocaine					

* Yellow highlight indicates committee action needed *Highlight indicates review completion

Agenda

- Approve notes from June 23, 2015
- 2017 sunset (CBo) Butorphanol - Discuss proposal & vote
- 2017 sunset (CBo) Formic Acid - Discuss proposal & vote
- Adjourn

Discussion

- **Notes from the June 23, 2015** call were approved with no changes.
- **Formic Acid (CBo)**. Formic Acid is used as an external parasiticide and local antiseptic. The lead summarized the draft review. Members discussed modifications to the checklist and suggested incorporating a narrative summary of the checklist into the review document.

  Motion to remove Formic Acid from §205.603
  Motion by: JR
  Seconded by: CW
  Additional Discussion: The lead asked about adding text to the review template from the checklist, and the Chair indicated that the information is included, and may just need some minor rewording. The NOP will forward some information regarding a correction to the TR about wintergreen.
  Yes: 0 No: 6 Abstain: 0 Absent: 1 Recuse: 0

  Motion to move the information from the checklist into the sunset template as narrative text
  Motion by: JR
  Seconded by: AS
  Additional Discussion: Several members agreed that the use of checklists should be a topic for the Policy Development Subcommittee, however, it will be adopted here for purposes of the 2017 sunset review of Livestock materials. This will promote consistency between Subcommittees and make the information readily available to all.
  Yes: 5 No: 1 Abstain: 0 Absent: 1 Recuse: 0

- 2017 sunset: Butorphanol (CBo). The lead summarized the material, its use, and the public comment received for the first posting. Members made some minor modifications and proceeded to a vote.

  Motion to remove Butorphanol from §205.603
  Motion by: JR
  Seconded by: CW
  Additional Discussion: none
  Yes: 0 No: 6 Abstain: 0 Absent: 1 Recuse: 0

- **Reassign PDs materials as she is no longer on the Livestock Subcommittee**
  - **Mineral oil, Paracetic acid (TF)**
  - **Atropine (JR)**
  - **Magnesium hydroxide (AS)**

- **Magnesium sulfate (AS)**
- **The meeting was adjourned**

Previous LS Notes

Future Call Schedule:

June 23, 2015 - additional call

Aluminum Sulfate (JR) - TR sufficiency
Acid activated bentonite (AS) - Determine need for TR
Iodine (JR) - Discuss proposal & vote
Excipients (JR) - Discuss proposal & vote
Hydrated Lime (TF) - Discuss proposal & vote
Trace minerals (TF) - Discuss proposal & vote
Butorphanol (CBo) - Discuss proposal & vote

July 7, 2015

Butorphanol (CBo) - Discuss proposal & vote
Formic Acid (CBo) - Discuss proposal & vote

July 21, 2015

2017 sunset - Chlorine Materials (Calcium hypochlorite, Sodium hypochlorite, Chlorine dioxide (AS). Discuss review and vote.
2017 sunset - Mineral oil, Peracetic acid (TF)
2017 sunset - Excipients (CBo/JR). Discuss review and vote.
2017 sunset - Iodine (JR). Discuss review and vote.
Research Priorities

July 28, 2015 - additional call

Proposal for lidocaine and procaine annotation change
Organic Poultry working group - Discussion about adding this to work agenda.

August 4, 2015

2017 sunset - Tolazoline §205.603
2017 sunset - Xylazine §205.603
2017 sunset - Oxytocin
2017 sunset - Electrolytes

August 18, 2015

2017 sunset - Atropine (JR). Discuss review and vote.
2017 sunset - Flunixin and Furosemide (AS). Discuss review and vote.

August 25, 2015 - additional call

Paraciticides annotation change discussion doc.
2017 sunset - Magnesium hydroxide (AS)
2017 sunset - Magnesium sulfate (AS)

September 1, 2015
September 15, 2015
October 6, 2015
October 20, 2015
November 3, 2015
November 17, 2015
December 1, 2015
December 15, 2015

Fall 2015 Milestones	Target date
NOP - Complete Fall 2015 NOSB meeting tentative agenda	July 8, 2015
Request for TRs for 2018 sunset materials	July 15, 2015
NOSB - Fall 2015 proposals due to NOP	Aug 26, 2015
NOP - Post proposals, Publish FRN, Open public comment	Sep 8, 2015
Discuss work agendas on ES call	Sep 11, 2015
Public comment webinars	Sep 22 & 29, 2015
Public comment closes	Oct 5, 2015
Work agendas finalized on ES call (last call before fall meeting)	Oct 8, 2015
NOP - Send compiled public comments to NOSB	Oct 13, 2015
Fall 2015 NOSB meeting - Stowe, VT	Oct 26 - 29, 2015

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National Organic Standards Board (NOSB)
Livestock/Aquaculture Subcommittee (LS) Meeting Notes
Tuesday, July 21, 2015 3:00pm ET

Attending: Tracy Favre, Chair (TF); Jean Richardson (JR); Ashley Swaffar (AS), Co-VC; Francis Thicke (FT); Colehour Bondera (CBo); Calvin Walker, Vice Chair (CW)
Absent: none
Staff: Michelle Arsenault (MA); Emily Brown Rosen (EBR)

Work Agenda

Petitioned Materials						
Substance	**Nat'l List §**	**Contact**	**TR requested**	**Notes**	**Vote**	**Meeting**
Aluminum Sulfate (PDF)	205.603	JR	2015	The petitioner requests two related allowances on the NL: (1) treatment of poultry litter (205.603) and (2) application of treated poultry litter to the field (205.601). Sent to LS 03 12 14. TR request sent to NOP 06 18 14. TR expected Jan 2015. TRs (2) sent to LS 05 15 15. Suff due 07 15 15. TR found suff 06 23 15		Proposal Fall 2015?
Sodium Bisulfate	205.603	JR	2015	Petition sent to LS 05 27 14. Q's for petitioner/TR request due 07 28 14. TR request sent to NOP 08 06 14. TR expected Jan 2015. TR sent to LS 05 14 15. Suff due 07 14 15. TR found suff 05 19 15		TBD
Acid-Activated Bentonite	205.603	AS	Y Lmtd Scope	Petition sent to LS 04 03 15. Q's for petitioner. TR request due 06 02 15. Petition found suff 06 02 15. Determine need for TR. Rqst for Lmtd scope TR sent to NOP 06 23 15 Two related petitions pending for treatment of poultry litter: **sodium bisulfate** and **aluminum sulfate**. TAP for Kaolin Clay and Bentonite 1995		TBD

Aquaculture-CO_2, (for aquatic plants)	205.609	TF/CBo	N	Petition sent to CS 5 30 12. Will rqst modification from petitioner (for use pattern). Updated petition was deemed sufficient. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Chlorine (for aquatic plants)	205.609	FT	2011 Crops TR 2006 TR 1995 TAP	Petition sent to CS on 5 30 12. Determine petition sufficiency. CS requested clarification from petitioner 11 20 12. 2011 TR deemed suff for this review 11 20 12. Additional aquaculture TR deemed unnecessary. Sent follow up questions to petitioner. Response deemed sufficient.	NA	Proposal TBD
Aquaculture-Micronutrients (for aquatic plants)	205.609	FT	2010 TR (Nickel) 6/2013 Minerals TR	Petition sent to CS on 06 08 12. Petition sufficiency response due 08 08 12? CS sent request to NL Mgr 12 04 12 for additional info. Questions clarified by petitioner. Petition found sufficient 06 18 13 and 07 02 13. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Lignin sulfonate (chelating agent for aquatic plants) (for aquatic plants) CAS #s 9009-75-0, 8062-15-5, 8061-51-6	205.609	JR	2/2011 Crops TR 7/2013 TR Aquatic Animals TR	Petition sent to CS on 07 03 12. Petition Sufficiency Response due 09 04 12. CS sent request to NL Mgr 12 04 12 for additional info and TR. Questions clarified by petitioner. Petition found sufficient 6 18 13 and 07 02 13.	NA	Proposal TBD
Aquaculture-Vitamins (B1, B12, H) for aquatic plants	205.609	CW	4/2013 Aquatic Animals TR	Petition sent to CS 08 10 12. Petition Sufficiency response due 10 10 12. Petition found sufficient 06 18 13.	NA	Proposal TBD
Aquaculture - Biologics: Vaccines for Aquatic Animals	205.611	JR	2011 TR (Vaccines made from GMOs)	Petition sent to LS 06 14 12. Petition found sufficient and TR requested on 05 21 13. (NOP note: TR sent to LS 01 24 14. TR deemed sufficient 02 03 14	NA	Proposal TBD

Aquaculture - Chlorine (for aquatic animals)	205.611	FT	No Crops 2011 Crops 2006 Crops 1995 Livestock 2006 Handling 2006	Petition sent to LS on 05 30 12. Petition found sufficient 07 03 12. No TR requested	NA	Proposal TBD
Aquaculture – Tocopherols (for aquatic animals)	205.611	TF/CBo	2013 TR 1995 TAP rvw	Petition sent to LS on 05 30 12. Petition found sufficient 08 06 12. TR requested 08 06 12. Draft TR sent to LS on 04 16 13. TR found sufficient 06 04 13	NA	Proposal TBD
Aquaculture – Vitamins (for aquatic animals)	205.611	CW/FT	Yes 2013 TR	Petition sent to LS on 05 30 12. Response due ~07 30 12. Petition found sufficient 08 06 12. Requested joint TR with Minerals 08 06 12. TR sent to LS 04 29 13. TR found suff 06 18 13.	NA	Proposal TBD
Aquaculture - Trace Minerals (for aquatic animals)	205.611	CW/FT	2013 TR	Petition sent to LS on 06 08 12. Response due ~08 08 12. Petition found sufficient 08 06 12? Requested joint TR with Vitamins 08 06 12. TR sent to LS 06 25 13. Suff due 08 27 13. TR found sufficient 07 16 13. Fall 2013 meeting cancelled.	NA	Proposal TBD

2017 Sunsets TR Requests Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**TR requested**	**Notes**	**Discussion scheduled:**	**Meeting**
Ethanol §205.603	TF	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	08 18 15	Review: Fall 2015
Isopropanol §205.603	CW	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	06 16 16	
Chlorhexidine §205.603	FT/CW	2010 TR Y	TR requested 08 15 14. TR expected Jan/Feb 2015. TR sent to LS 02 26 15. Suff due 03 06 15. TR found suff 03 03 15.	06 16 15	
Copper sulfate §205.603	TF	1995 TAP 2015 Lmtd Scope	TR in development (expected Dec 2014). TR sent to LS 02 13 15. Suff due 03 06 15. TR found suff 02 17 15	05 26 15	

Electrolytes §205.603	CW	1995 TAP 2015 TR	TR expected Jan/Feb 2015. TR sent to LS 03 27 15. Suff due ASAP. TR found suff 04 07 15	08 04 15	
Excipients §205.603	JR	Y	TR expected Jan/Feb 2015. TR sent to LS 02 26 15. Suff due 03 06 15. TR found suff 03 03 15.	06 23 15	
Fenbendazole §205.603	FT	1999 TR Y	Combined with other paraciticides (Moxidectin and Ivermectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP	05 19 15 Vote 06 02 15	
Ivermectin §205.603	FT	1999 TR Y	Combined with other paraciticides (Fendbendazole and Moxidectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP	05 19 15 Vote 06 02 15	
Moxidectin §205.603	FT	2003 TR Y	Combined with other paraciticides (Fendbendazole and Ivermectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP	05 19 15 Vote 06 02 15	
Hydrated lime §205.603(b)	TF	1995 TAP	TR expected Jan/Feb 2015. TR sent to LS 03 27 15. Suff due ASAP. TR found suff 04 07 15	06 23 15	
Hydrogen peroxide §205.603(a)	CW	Y (for Crops 205.601(a))	TR for Crops expected Jan/Feb 2015	06 16 15	
Iodine 205.603(a)(14) and 205.603(b)(2)	JR	1994 TAP 2015 TR	TR expected Jan/Feb 2015. TR sent to LS 01 07 15. Suff due 03 06 15. TR found sufficient 01 20 15	06 23 15	
Mineral oil §205.603	PD	2002 TR 2015 TR	TR expected Jan/Feb 2015	07 21 15	
Vitamins §205.603(d)	CW	2015 Lmtd scope	TR expected Jan/Feb 2015	06 02 15	

2017 Sunsets (No TRs) Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**New TR reqst?**	**Notes**	**Discussion scheduled**	**Meeting**
Aspirin §205.603	JR	N (04 01)		05 19 15	Review: Fall 2015
Atropine §205.603	TF	N (06 03)		08 18 15	
Butorphanol §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	07 07 15	
Chlorine Mtrls: Calcium hypochlorite §205.603	FT	N (06 17)		07 21 15	
EPA List 4 - Inerts of Minimal Concern §205.603	TF	N (06 03)	TR for NPEs sent to CS 01 30 15. No action by LS needed.	05 26 15	

Flunixin §205.603	TF	N (06 03)		08 18 15	
Formic Acid §205.603	CBo	N (06 17)		07 07 15	
Furosemide §205.603	TF	N (06 03)		08 18 15	
Glucose §205.603	CW	N (07 01)		06 16 15	
Glycerine §205.603	TF	N (06 03)		05 26 15	
Lidocaine §205.603	JR	N (04 01)		05 19 15	
Magnesium hydroxide §205.603	AS	N		08 25 15	
Magnesium sulfate §205.603	AS	N		08 25 15	
Methionine §205.603	TF	N		06 02 15	
Oxytocin §205.603	CW	N (07 01)		08 04 15	
Peracetic acid §205.603	JR	N (04 01)		07 21 15	
Phosphoric acid §205.603	JR	N (04 01)		05 26 15	
Poloxalene §205.603	FT	N		06 16 15	
Procaine §205.603	JR	N (04 01)		05 19 15	
Strychnine 205.604	JR	N (04 01)		05 26 15	
Sucrose octanoate esters §205.603	FT	N		06 16 15	
Trace minerals §205.603	FT	N		06 23 15	
Vaccines §205.603	JR	N (04 01)		05 26 15	
Tolazoline §205.603	FT	2002 TR Y	New TR requested. Not contracted.	08 04 15	
Xylazine §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	08 04 15	

Other projects

Project	Contact	TR Reqst?	Notes	Vote	Meeting
Annotation Changes Procaine Lidocaine Paraciticides	JR		Discussed at ES meeting 07 10 15. Discussion doc	07 21 15	Fall 2015

Annotation Changes NPEs Trace Minerals	JR				

* Yellow highlight indicates committee action needed *Highlight indicates review completion

Agenda

- Approve notes from July 7, 2015
- 2017 sunset - Chlorine Materials (Calcium hypochlorite, Sodium hypochlorite, Chlorine dioxide (AS). Discuss review and vote.
- 2017 sunset - Mineral oil, Peracetic acid (TF)
- 2017 sunset - Excipients (CBo/JR). Discuss review and vote.
- 2017 sunset - Iodine (JR). Discuss review and vote.
- Annotation Change - Lidocaine and Procaine
- Annotation Change - Paraciticides
- Research Priorities
- Adjourn

Discussion

- **Notes from the July 7, 2015** call were approved with minor changes to the reviewer name for Magnesium hydroxide, Magnesium sulfate
- **2017 sunset (AS) Chlorine Materials (Calcium hypochlorite, Sodium hypochlorite, Chlorine dioxide).** The group discussed the review for the three chlorine materials and proceeded to a vote.

  Motion to remove chlorine materials from (Calcium hypochlorite, Sodium hypochlorite, Chlorine dioxide) 205.603(a)
  Motion by: AS
  Seconded by: JR
  Additional Discussion: none
  Yes: 0 No: 5 Abstain: 0 Absent: 1 Recuse: 0

- **2017 sunset - Mineral oil (TF).** Used as topical treatment. Little public comment was received.

  Motion to remove Mineral oil from 205.603(b)(6)
  Motion by: TF
  Seconded by: JR
  Additional Discussion: A member asked about using vegetable oil as a substitute. Another member noted that mineral oil is preferable as it does not go rancid
  Yes: 1 No: 3 Abstain: 1 Absent: 1 Recuse: 0

- **2017 sunset - Peracetic acid (TF).** Listed with annotation. Peracetic Acid is an irritant to eyes, skin, and the respiratory tract. There was a 2000 TAP and a petition in 2008. The LS didn't received comments in response to their questions.

  Motion to remove Peracetic acid from 205.603
  Motion by: TF
  Seconded by: JR

Additional Discussion: A member asked about requesting a TR since this material is used in both Crops and Handling. The Crops listing has a 2018 sunset date. . He suggested that there be some coordination between the two Subcommittees and perhaps the addition of some questions about its different uses and differences by states milk inspectors.
Yes: 0 No: 5 Abstain: 0 Absent: 1 Recuse: 0

- **Lidocaine and Procaine - Annotation Change**. The LS voted previously against removing lidocaine and procaine as part of sunset review, but is developing a separate proposal to change the annotations**.** The LS proposed questions about a reduced withholding time and commenters, including several producers and organizations, were supportive of the step down. The lead indicated that there is strong science behind this idea. The lead made some modifications to the draft document based on the discussion.
  Motion to change annotations for lidocaine and procaine on §205.603
  Lidocaine - as a local anesthetic. Use requires a withdrawal period of ~~90 days after administering to livestock intended for slaughter and 7 days after administering to dairy animals~~ 5 days after administering to livestock.

  Procaine—as a local anesthetic, use requires a withdrawal period of ~~90 days after administering to livestock intended for slaughter and 7 days after administering to dairy animals~~ 5 days after administering to livestock.

  Motion by: JR
  Seconded by: FT
  Additional Discussion: none
  Yes: 4 No: 0 Abstain: 0 Absent: 2 Recuse: 0

- **Paraciticides - Annotation Change.** Deferred to next call
- **Research Priorities.** The LS had a brief discussion and will formalize its list on next call. The members reviewed the Research Priorities from last year, which included, parasiticides. Mastitis, and Methionine (MET).
- The LS Chair mentioned the idea of an **Organic Poultry working group** in relation to MET, which was discussed at the last ES meeting. Due to work load and available resources at present, the idea is on hold for now.
- **The meeting was adjourned**

Previous LS Notes

Future Call Schedule:

July 7, 2015

Butorphanol (CBo) - Discuss proposal & vote
Formic Acid (CBo) - Discuss proposal & vote

July 21, 2015

2017 sunset - Chlorine Materials (Calcium hypochlorite, Sodium hypochlorite, Chlorine dioxide (AS). Discuss review and vote.
2017 sunset - Mineral oil, Peracetic acid (TF)
Research Priorities

July 28, 2015 - additional call cancelled

August 4, 2015

Finalize Research Priorities
2017 sunset - Tolazoline §205.603
2017 sunset - Xylazine §205.603
2017 sunset - Oxytocin
2017 sunset - Electrolytes
Paraciticides - Annotation Change

August 18, 2015

2017 sunset - Atropine (JR). Discuss review and vote.
2017 sunset - Flunixin and Furosemide (AS). Discuss review and vote.

August 25, 2015 - additional call

Paraciticides annotation change discussion doc.
2017 sunset - Magnesium hydroxide (AS)
2017 sunset - Magnesium sulfate (AS)

September 1, 2015
September 15, 2015
October 6, 2015
October 20, 2015
November 3, 2015
November 17, 2015
December 1, 2015
December 15, 2015

Fall 2015 Milestones	Target date
NOP - Complete Fall 2015 NOSB meeting tentative agenda	July 8, 2015
Request for TRs for 2018 sunset materials	July 15, 2015
NOSB - Fall 2015 proposals due to NOP	Aug 26, 2015
NOP - Post proposals, Publish FRN, Open public comment	Sep 8, 2015
Discuss work agendas on ES call	Sep 11, 2015
Public comment webinars	Oct 13 & 20, 2015
Public comment closes	Oct 5, 2015
Work agendas finalized on ES call (last call before fall meeting)	Oct 8, 2015
NOP - Send compiled public comments to NOSB	Oct 13, 2015
Fall 2015 NOSB meeting - Stowe, VT	Oct 26 - 29, 2015

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy or regulations. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

National Organic Standards Board (NOSB)
Livestock/Aquaculture Subcommittee (LS) Meeting Notes
Tuesday, August 4 2015 3:00pm ET

Attending: Tracy Favre, Chair (TF); Jean Richardson (JR); Ashley Swaffar (AS), Co-VC; Francis Thicke (FT); Colehour Bondera (CBo); Calvin Walker, Vice Chair (CW); Harold Austin (HA) - sitting in
Absent: none
Staff: Michelle Arsenault (MA); Emily Brown Rosen (EBR)

Work Agenda

Petitioned Materials						
Substance	**Nat'l List §**	**Contact**	**TR requested**	**Notes**	**Vote**	**Meeting**
Aluminum Sulfate (PDF)	205.603	JR	2015	The petitioner requests two related allowances on the NL: (1) treatment of poultry litter (205.603) and (2) application of treated poultry litter to the field (205.601). Sent to LS 03 12 14. TR request sent to NOP 06 18 14. TR expected Jan 2015. TRs (2) sent to LS 05 15 15. Suff due 07 15 15. TR found suff 06 23 15		Proposal Fall 2015?
Sodium Bisulfate	205.603	JR	2015	Petition sent to LS 05 27 14. Q's for petitioner/TR request due 07 28 14. TR request sent to NOP 08 06 14. TR expected Jan 2015. TR sent to LS 05 14 15. Suff due 07 14 15. TR found suff 05 19 15		TBD
Acid-Activated Bentonite	205.603	AS	Y Lmtd Scope	Petition sent to LS 04 03 15. Q's for petitioner. TR request due 06 02 15. Petition found suff 06 02 15. Determine need for TR. Rqst for Lmtd scope TR sent to NOP 06 23 15 Two related petitions pending for treatment of poultry litter: **sodium bisulfate** and **aluminum sulfate**. TAP for Kaolin Clay and Bentonite 1995		TBD

Aquaculture-CO_2, (for aquatic plants)	205.609	TF/CBo	N	Petition sent to CS 5 30 12. Will rqst modification from petitioner (for use pattern). Updated petition was deemed sufficient. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Chlorine (for aquatic plants)	205.609	FT	2011 Crops TR 2006 TR 1995 TAP	Petition sent to CS on 5 30 12. Determine petition sufficiency. CS requested clarification from petitioner 11 20 12. 2011 TR deemed suff for this review 11 20 12. Additional aquaculture TR deemed unnecessary. Sent follow up questions to petitioner. Response deemed sufficient.	NA	Proposal TBD
Aquaculture-Micronutrients (for aquatic plants)	205.609	FT	2010 TR (Nickel) 6/2013 Minerals TR	Petition sent to CS on 06 08 12. Petition sufficiency response due 08 08 12? CS sent request to NL Mgr 12 04 12 for additional info. Questions clarified by petitioner. Petition found sufficient 06 18 13 and 07 02 13. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Lignin sulfonate (chelating agent for aquatic plants) (for aquatic plants) CAS #s 9009-75-0, 8062-15-5, 8061-51-6	205.609	JR	2/2011 Crops TR 7/2013 TR Aquatic Animals TR	Petition sent to CS on 07 03 12. Petition Sufficiency Response due 09 04 12. CS sent request to NL Mgr 12 04 12 for additional info and TR. Questions clarified by petitioner. Petition found sufficient 6 18 13 and 07 02 13.	NA	Proposal TBD
Aquaculture-Vitamins (B1, B12, H) for aquatic plants	205.609	CW	4/2013 Aquatic Animals TR	Petition sent to CS 08 10 12. Petition Sufficiency response due 10 10 12. Petition found sufficient 06 18 13.	NA	Proposal TBD
Aquaculture - Biologics: Vaccines for Aquatic Animals	205.611	JR	2011 TR (Vaccines made from GMOs)	Petition sent to LS 06 14 12. Petition found sufficient and TR requested on 05 21 13. (NOP note: TR sent to LS 01 24 14. TR deemed sufficient 02 03 14	NA	Proposal TBD

Aquaculture - Chlorine (for aquatic animals)	205.611	FT	No Crops 2011 Crops 2006 Crops 1995 Livestock 2006 Handling 2006	Petition sent to LS on 05 30 12. Petition found sufficient 07 03 12. No TR requested	NA	Proposal TBD
Aquaculture – Tocopherols (for aquatic animals)	205.611	TF/CBo	2013 TR 1995 TAP rvw	Petition sent to LS on 05 30 12. Petition found sufficient 08 06 12. TR requested 08 06 12. Draft TR sent to LS on 04 16 13. TR found sufficient 06 04 13	NA	Proposal TBD
Aquaculture – Vitamins (for aquatic animals)	205.611	CW/FT	Yes 2013 TR	Petition sent to LS on 05 30 12. Response due ~07 30 12. Petition found sufficient 08 06 12. Requested joint TR with Minerals 08 06 12. TR sent to LS 04 29 13. TR found suff 06 18 13.	NA	Proposal TBD
Aquaculture - Trace Minerals (for aquatic animals)	205.611	CW/FT	2013 TR	Petition sent to LS on 06 08 12. Response due ~08 08 12. Petition found sufficient 08 06 12? Requested joint TR with Vitamins 08 06 12. TR sent to LS 06 25 13. Suff due 08 27 13. TR found sufficient 07 16 13. Fall 2013 meeting cancelled.	NA	Proposal TBD

2017 Sunsets TR Requests Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**TR requested**	**Notes**	**Discussion scheduled:**	**Meeting**
Ethanol §205.603	TF	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	08 18 15	Review: Fall 2015
Isopropanol §205.603	CW	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	06 16 16	
Chlorhexidine §205.603	FT/CW	2010 TR Y	TR requested 08 15 14. TR expected Jan/Feb 2015. TR sent to LS 02 26 15. Suff due 03 06 15. TR found suff 03 03 15.	06 16 15	
Copper sulfate §205.603	TF	1995 TAP 2015 Lmtd Scope	TR in development (expected Dec 2014). TR sent to LS 02 13 15. Suff due 03 06 15. TR found suff 02 17 15	05 26 15	

Electrolytes §205.603	CW	1995 TAP 2015 TR	TR expected Jan/Feb 2015. TR sent to LS 03 27 15. Suff due ASAP. TR found suff 04 07 15	08 04 15	
Excipients §205.603	JR	Y	TR expected Jan/Feb 2015. TR sent to LS 02 26 15. Suff due 03 06 15. TR found suff 03 03 15.	06 23 15	
Fenbendazole §205.603	FT	1999 TR Y	Combined with other paraciticides (Moxidectin and Ivermectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP	05 19 15 Vote 06 02 15	
Ivermectin §205.603	FT	1999 TR Y	Combined with other paraciticides (Fendbendazole and Moxidectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP	05 19 15 Vote 06 02 15	
Moxidectin §205.603	FT	2003 TR Y	Combined with other paraciticides (Fendbendazole and Ivermectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP	05 19 15 Vote 06 02 15	
Hydrated lime §205.603(b)	TF	1995 TAP	TR expected Jan/Feb 2015. TR sent to LS 03 27 15. Suff due ASAP. TR found suff 04 07 15	06 23 15	
Hydrogen peroxide §205.603(a)	CW	Y (for Crops 205.601(a))	TR for Crops expected Jan/Feb 2015	06 16 15	
Iodine 205.603(a)(14) and 205.603(b)(2)	JR	1994 TAP 2015 TR	TR expected Jan/Feb 2015. TR sent to LS 01 07 15. Suff due 03 06 15. TR found sufficient 01 20 15	06 23 15	
Mineral oil §205.603	PD	2002 TR 2015 TR	TR expected Jan/Feb 2015	07 21 15	
Vitamins §205.603(d)	CW	2015 Lmtd scope	TR expected Jan/Feb 2015	06 02 15	

2017 Sunsets (No TRs) Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**New TR reqst?**	**Notes**	**Discussion scheduled**	**Meeting**
Aspirin §205.603	JR	N (04 01)		05 19 15	Review: Fall 2015
Atropine §205.603	TF	N (06 03)		08 18 15	
Butorphanol §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	07 07 15	
Chlorine Mtrls: Calcium hypochlorite §205.603	FT	N (06 17)		07 21 15	
EPA List 4 - Inerts of Minimal Concern §205.603	TF	N (06 03)	TR for NPEs sent to CS 01 30 15. No action by LS needed.	05 26 15	

Flunixin §205.603	TF	N (06 03)		08 18 15	
Formic Acid §205.603	CBo	N (06 17)		07 07 15	
Furosemide §205.603	TF	N (06 03)		08 18 15	
Glucose §205.603	CW	N (07 01)		06 16 15	
Glycerine §205.603	TF	N (06 03)		05 26 15	
Lidocaine §205.603	JR	N (04 01)		05 19 15	
Magnesium hydroxide §205.603	AS	N		08 25 15	
Magnesium sulfate §205.603	AS	N		08 25 15	
Methionine §205.603	TF	N		06 02 15	
Oxytocin §205.603	CW	N (07 01)		08 04 15	
Peracetic acid §205.603	JR	N (04 01)		07 21 15	
Phosphoric acid §205.603	JR	N (04 01)		05 26 15	
Poloxalene §205.603	FT	N		06 16 15	
Procaine §205.603	JR	N (04 01)		05 19 15/ & 08 04 15	
Strychnine 205.604	JR	N (04 01)		05 26 15	
Sucrose octanoate esters §205.603	FT	N		06 16 15	
Trace minerals §205.603	FT	N		06 23 15	
Vaccines §205.603	JR	N (04 01)		05 26 15	
Tolazoline §205.603	FT	2002 TR Y	New TR requested. Not contracted.	08 04 15	
Xylazine §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	08 18 15	

Other projects

Project	Contact	TR Reqst?	Notes	Vote	Meeting
Annotation Changes Procaine Lidocaine Paraciticides	JR		Discussed at ES meeting 07 10 15. Discussion doc	07 21 15/08 04 15	Fall 2015

Annotation Changes NPEs Trace Minerals	JR				TBD

* Yellow highlight indicates committee action needed *Highlight indicates review completion

Agenda

- Approve notes from July 28, 2015
- 2017 sunset - Tolazoline
- 2017 sunset - Xylazine
- 2017 sunset - Oxytocin
- 2017 sunset - Electrolytes
- Paraciticides - Annotation Change
- Adjourn

Discussion

- **Notes from the July 28, 2015** call were approved as written.
- **2017 sunset - Tolazoline (FT).** Used to reverse effects of Xylazine, which is a sedative, pain and muscle relaxant. Commenters noted that both of these materials are needed.

  Motion to remove Tolazoline from §205.603
  Motion by: FT
  Seconded by: JR
  Additional Discussion: none
  Yes: 0 No: 5 Abstain: 1 Absent: 0 Recuse: 0

- **2017 sunset - Xylazine (CBo).** Used as a sedative and pain reliever, in association with Tolazoline. The members discussed the format and length of the document and requested that it be revised to more closely align with the format of the Tolazoline document. The lead will redraft the document and re-send it to the group for a vote next time. Members discussed the FDA status, which had been questioned by public commenters. It is permitted for extra-label use on livestock under the Animal Medicinal Drug Use Clarification Act AMDUCA provisions, and a veterinary prescription is required.

- **2017 sunset - Oxytocin (CW).** Oxytocin is used in post parturition therapeutic applications in organic livestock production and is considered essential. Commenters were overwhelmingly in support of relisting.

  Motion to remove Oxytocin from 205.603(a)17
  Motion by: CW
  Seconded by: JR
  Additional Discussion: none
  Yes: 0 No: 6 Abstain: 0 Absent: 0 Recuse: 0

- **2017 sunset - Electrolytes (CW).** The lead summarized the material and its uses. The previous votes to relist electrolytes were unanimous. No comment in support of removal and it is found to meet the essentiality and compatibility criteria.

Motion to remove Electrolytes from 205.603(d)8
Motion by: CW
Seconded by: JR
Additional Discussion:
Yes: 0 No: 6 Abstain: 0 Absent: 0 Recuse: 0

Lidocaine and procaine. Both of the documents proposing annotation changes were revised and will be put forth as discussion docs instead of proposals. In light of the revisions, the LS chose to revote on the 2017 Sunset proposal to remove procaine. The original vote was conducted on May 19. The LS does not feel that they need a revote on lidocaine, as these changes will not affect the outcome of that vote.

Revote:
Motion to remove Procaine from §205.603
Motion by: JR
Seconded by: CBo
Additional Discussion:
Yes: 4 No: 2 Abstain: 0 Absent: 0 Recuse: 0

Lidocaine/Procaine annotation change discussion document. THE LS added specific questions for both lidocaine and procaine for which they are seeking public comment.

Motion to accept the Lidocaine/Procaine annotation change discussion document.
Motion by: JR
Seconded by: CW
Additional Discussion: none
Yes: 6 No: 0 Abstain: 0 Absent: 0 Recuse: 0

- **The meeting was adjourned**

Previous LS Notes
Future Call Schedule:
July 21, 2015
2017 sunset - Chlorine Materials (Calcium hypochlorite, Sodium hypochlorite, Chlorine dioxide (AS). Discuss review and vote.
2017 sunset - Mineral oil, Peracetic acid (TF)
Research Priorities
July 28, 2015 - additional call cancelled
August 4, 2015
Finalize Research Priorities
2017 sunset - Tolazoline §205.603
2017 sunset - Xylazine §205.603 **-** deferred to next call.
2017 sunset - Oxytocin
2017 sunset - Electrolytes
Paraciticides - Annotation Change
August 18, 2015
2017 sunset - Atropine (JR). Discuss review and vote.

2017 sunset - Flunixin and Furosemide (AS). Discuss review and vote.
2017 sunset - Xylazine (CBo). Discussion and vote.

August 25, 2015 - additional call

Paraciticides annotation change discussion doc.
2017 sunset - Magnesium hydroxide (AS)
2017 sunset - Magnesium sulfate (AS)

September 1, 2015
September 15, 2015
October 6, 2015
October 20, 2015
November 3, 2015
November 17, 2015
December 1, 2015
December 15, 2015

Fall 2015 Milestones	Target date
NOP - Complete Fall 2015 NOSB meeting tentative agenda	July 8, 2015
Request for TRs for 2018 sunset materials	July 15, 2015
NOSB - Fall 2015 proposals due to NOP	Aug 26, 2015
NOP - Post proposals, Publish FRN, Open public comment	Sep 8, 2015
Discuss work agendas on ES call	Sep 11, 2015
Public comment webinars	Oct 13 & 20, 2015
Public comment closes	Oct 5, 2015
Work agendas finalized on ES call (last call before fall meeting)	Oct 8, 2015
NOP - Send compiled public comments to NOSB	Oct 13, 2015
Fall 2015 NOSB meeting - Stowe, VT	Oct 26 - 29, 2015

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy or regulations. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

National Organic Standards Board (NOSB)
Livestock/Aquaculture Subcommittee (LS) Meeting Notes
Tuesday, August 18 2015 3:00pm ET

Attending: Tracy Favre, Chair (TF); Jean Richardson (JR); Ashley Swaffar (AS), Co-VC; Francis Thicke (FT); Colehour Bondera (CBo); Calvin Walker, Vice Chair (CW)
Absent: none
Staff: Michelle Arsenault (MA); Emily Brown Rosen (EBR)

Work Agenda

Petitioned Materials						
Substance	**Nat'l List §**	**Contact**	**TR requested**	**Notes**	**Vote**	**Meeting**
Aluminum Sulfate (PDF)	205.603	JR	2015	The petitioner requests two related allowances on the NL: (1) treatment of poultry litter (205.603) and (2) application of treated poultry litter to the field (205.601). Sent to LS 03 12 14. TR request sent to NOP 06 18 14. TR expected Jan 2015. TRs (2) sent to LS 05 15 15. Suff due 07 15 15. TR found suff 06 23 15		Proposal Spring 2016
Petition for Sodium Bisulfate Petition Addendum	205.603	JR	2015	Petition sent to LS 05 27 14. Q's for petitioner/TR request due 07 28 14. TR request sent to NOP 08 06 14. TR expected Jan 2015. TR sent to LS 05 14 15. Suff due 07 14 15. TR found suff 05 19 15. Pet Addendum sent to LS 08 20 15.		TBD
Acid-Activated Bentonite	205.603	AS	Y Lmtd Scope	Petition sent to LS 04 03 15. Q's for petitioner. TR request due 06 02 15. Petition found suff 06 02 15. Determine need for TR. Rqst for Lmtd scope TR sent to NOP 06 23 15 Two related petitions pending for treatment of poultry litter: **sodium bisulfate** and **aluminum sulfate**. TAP for Kaolin Clay and Bentonite 1995		TBD

Aquaculture-CO_2, (for aquatic plants)	205.609	TF/CBo	N	Petition sent to CS 5 30 12. Will rqst modification from petitioner (for use pattern). Updated petition was deemed sufficient. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Chlorine (for aquatic plants)	205.609	FT	2011 Crops TR 2006 TR 1995 TAP	Petition sent to CS on 5 30 12. Determine petition sufficiency. CS requested clarification from petitioner 11 20 12. 2011 TR deemed suff for this review 11 20 12. Additional aquaculture TR deemed unnecessary. Sent follow up questions to petitioner. Response deemed sufficient.	NA	Proposal TBD
Aquaculture-Micronutrients (for aquatic plants)	205.609	FT	2010 TR (Nickel) 6/2013 Minerals TR	Petition sent to CS on 06 08 12. Petition sufficiency response due 08 08 12? CS sent request to NL Mgr 12 04 12 for additional info. Questions clarified by petitioner. Petition found sufficient 06 18 13 and 07 02 13. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Lignin sulfonate (chelating agent for aquatic plants) (for aquatic plants) CAS #s 9009-75-0, 8062-15-5, 8061-51-6	205.609	JR	2/2011 Crops TR 7/2013 TR Aquatic Animals TR	Petition sent to CS on 07 03 12. Petition Sufficiency Response due 09 04 12. CS sent request to NL Mgr 12 04 12 for additional info and TR. Questions clarified by petitioner. Petition found sufficient 6 18 13 and 07 02 13.	NA	Proposal TBD
Aquaculture-Vitamins (B1, B12, H) for aquatic plants	205.609	CW	4/2013 Aquatic Animals TR	Petition sent to CS 08 10 12. Petition Sufficiency response due 10 10 12. Petition found sufficient 06 18 13.	NA	Proposal TBD
Aquaculture - Biologics: Vaccines for Aquatic Animals	205.611	JR	2011 TR (Vaccines made from GMOs)	Petition sent to LS 06 14 12. Petition found sufficient and TR requested on 05 21 13. (NOP note: TR sent to LS 01 24 14. TR deemed sufficient 02 03 14	NA	Proposal TBD

Aquaculture - Chlorine (for aquatic animals)	205.611	FT	No Crops 2011 Crops 2006 Crops 1995 Livestock 2006 Handling 2006	Petition sent to LS on 05 30 12. Petition found sufficient 07 03 12. No TR requested	NA	Proposal TBD
Aquaculture – Tocopherols (for aquatic animals)	205.611	TF/CBo	2013 TR 1995 TAP rvw	Petition sent to LS on 05 30 12. Petition found sufficient 08 06 12. TR requested 08 06 12. Draft TR sent to LS on 04 16 13. TR found sufficient 06 04 13	NA	Proposal TBD
Aquaculture – Vitamins (for aquatic animals)	205.611	CW/FT	Yes 2013 TR	Petition sent to LS on 05 30 12. Response due ~07 30 12. Petition found sufficient 08 06 12. Requested joint TR with Minerals 08 06 12. TR sent to LS 04 29 13. TR found suff 06 18 13.	NA	Proposal TBD
Aquaculture - Trace Minerals (for aquatic animals)	205.611	CW/FT	2013 TR	Petition sent to LS on 06 08 12. Response due ~08 08 12. Petition found sufficient 08 06 12? Requested joint TR with Vitamins 08 06 12. TR sent to LS 06 25 13. Suff due 08 27 13. TR found sufficient 07 16 13. Fall 2013 meeting cancelled.	NA	Proposal TBD

2017 Sunsets TR Requests Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**TR requested**	**Notes**	**Discussion scheduled:**	**Meeting**
Ethanol §205.603	TF	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	08 18 15	Review: Fall 2015
Isopropanol §205.603	CW	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	06 16 16	
Chlorhexidine §205.603	FT/CW	2010 TR Y	TR requested 08 15 14. TR expected Jan/Feb 2015. TR sent to LS 02 26 15. Suff due 03 06 15. TR found suff 03 03 15.	06 16 15	
Copper sulfate §205.603	TF	1995 TAP 2015 Lmtd Scope	TR in development (expected Dec 2014). TR sent to LS 02 13 15. Suff due 03 06 15. TR found suff 02 17 15	05 26 15	

Electrolytes §205.603	CW	1995 TAP 2015 TR	TR expected Jan/Feb 2015. TR sent to LS 03 27 15. Suff due ASAP. TR found suff 04 07 15	08 04 15	
Excipients §205.603	JR	Y	TR expected Jan/Feb 2015. TR sent to LS 02 26 15. Suff due 03 06 15. TR found suff 03 03 15.	06 23 15	
Fenbendazole §205.603	FT	1999 TR Y	Combined with other paraciticides (Moxidectin and Ivermectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP	05 19 15 Vote 06 02 15	
Ivermectin §205.603	FT	1999 TR Y	Combined with other paraciticides (Fendbendazole and Moxidectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP	05 19 15 Vote 06 02 15	
Moxidectin §205.603	FT	2003 TR Y	Combined with other paraciticides (Fendbendazole and Ivermectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP	05 19 15 Vote 06 02 15	
Hydrated lime §205.603(b)	TF	1995 TAP	TR expected Jan/Feb 2015. TR sent to LS 03 27 15. Suff due ASAP. TR found suff 04 07 15	06 23 15	
Hydrogen peroxide §205.603(a)	CW	Y (for Crops 205.601(a))	TR for Crops expected Jan/Feb 2015	06 16 15	
Iodine 205.603(a)(14) and 205.603(b)(2)	JR	1994 TAP 2015 TR	TR expected Jan/Feb 2015. TR sent to LS 01 07 15. Suff due 03 06 15. TR found sufficient 01 20 15	06 23 15	
Mineral oil §205.603	PD	2002 TR 2015 TR	TR expected Jan/Feb 2015	07 21 15	
Vitamins §205.603(d)	CW	2015 Lmtd scope	TR expected Jan/Feb 2015	06 02 15	

2017 Sunsets (No TRs) Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**New TR reqst?**	**Notes**	**Discussion scheduled**	**Meeting**
Aspirin §205.603	JR	N (04 01)		05 19 15	Review: Fall 2015
Atropine §205.603	TF	N (06 03)		08 18 15	
Butorphanol §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	07 07 15	
Chlorine Mtrls: Calcium hypochlorite §205.603	FT	N (06 17)		07 21 15	
EPA List 4 - Inerts of Minimal Concern §205.603	TF	N (06 03)	TR for NPEs sent to CS 01 30 15. No action by LS needed.	05 26 15	

Flunixin §205.603	TF	N (06 03)		08 18 15	
Formic Acid §205.603	CBo	N (06 17)		07 07 15	
Furosemide §205.603	TF	N (06 03)		08 18 15	
Glucose §205.603	CW	N (07 01)		06 16 15	
Glycerine §205.603	TF	N (06 03)		05 26 15	
Lidocaine §205.603	JR	N (04 01)		05 19 15	
Magnesium hydroxide §205.603	AS	N		08 25 15	
Magnesium sulfate §205.603	AS	N		08 25 15	
Methionine §205.603	TF	N		06 02 15	
Oxytocin §205.603	CW	N (07 01)		08 04 15	
Peracetic acid §205.603	JR	N (04 01)		07 21 15	
Phosphoric acid §205.603	JR	N (04 01)		05 26 15	
Poloxalene §205.603	FT	N		06 16 15	
Procaine §205.603	JR	N (04 01)		05 19 15/ & 08 04 15	
Strychnine 205.604	JR	N (04 01)		05 26 15	
Sucrose octanoate esters §205.603	FT	N		06 16 15	
Trace minerals §205.603	FT	N		06 23 15	
Vaccines §205.603	JR	N (04 01)		05 26 15	
Tolazoline §205.603	FT	2002 TR Y	New TR requested. Not contracted.	08 04 15	
Xylazine §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	08 25 15	

Other projects

Project	Contact	TR Reqst?	Notes	Vote	Meeting
Annotation Changes Procaine Lidocaine Parasiticides	JR		Discussed at ES meeting 07 10 15. Discussion docs	07 21 15/08 04 15/08 18 15	Fall 2015

Annotation Changes NPEs Trace Minerals	JR				TBD

* Yellow highlight indicates committee action needed *Highlight indicates review completion

Agenda

- Approve notes from August 4, 2015
- 2017 sunset - Flunixin and Furosemide (AS). Discuss review and vote.
- 2017 sunset - Atropine (JR). Discuss review and vote.
- 2017 sunset - Ethanol (TF)
- List 4 inerts in pesticides proposal
- Discuss: Annotation Changes - NPEs, Parasiticides
- Adjourn

Discussion

- **Notes from the August 4, 2015** call were approved with no changes.

- **2017 sunset (AS)**
  - **Flunixin.** Used as an anti-inflammatory. The LS posed some questions last time for comment, and the consensus was that it should remain on the list.

    Motion to remove from §205.603
    Motion by: AS
    Seconded by: JR
    Additional Discussion: The group discussed the inclusion of a Brand Name in the review document, which was listed in the TR. The group chose to remove the brand name and leave in the generic.
    Yes: 0 No: 4 Abstain: 1 Absent: 1 Recuse: 0

  - **Furosemide.** Used commonly as a diuretic in medical treatment. The HS asked for comments but did not ask specific questions. They received very little feedback, however, one commenter noted that there are alternatives to furosemide as a diuretic such as coffee, and suggested that it could be removed from the list. …

    Motion to remove furosemide from 205.60()
    Motion by: AS
    Seconded by: JR
    Additional Discussion: none
    Yes: 5 No: 1 Abstain: 0 Absent: 0 Recuse: 0

- **2017 sunset (JR). Atropine**. Rarely used, highly controlled substance, administered under orders of a veterinarian. Generally given orally as an antidote for organophosphate poisoning and as an antispasmodic. The group discussed the withdrawal period. Commenters supported relisting.

Motion to remove Atropine from 205.603
Motion by: JR
Seconded by: AS
Additional Discussion: The group discussed the rare situation in which this would be administered and did not see a need to remove it.
Yes: 0 No: 6 Abstain: 0 Absent: 0 Recuse: 0

- **2017 sunset (TF). Ethanol -** Volatile, flammable, colorless. Its use in organic livestock production is limited to use as a disinfectant and sanitizer and is prohibited as a feed additive. Public feedback was overwhelmingly in support of relisting.

  Motion to remove ethanol from §205.603
  Motion by: TF
  Seconded by: JR
  Additional Discussion: none
  Yes: 0 No: 6 Abstain: 0 Absent: 0 Recuse: 0

- **2017 sunsets (Misc) -** The following documents were previously voted on, and re-recirculated for review after minor modifications were made. There was no objections to the changes.
  - 2017 sunset - Formic Acid
  - 2017 sunset - Butorphanol
  - 2017 sunset - Xylazine (CBo)

- **List 4 inerts in pesticides sunset review/List 4 annotation change proposal from Crops.** The LS Chair suggested that the LS members review the Crops Subcommittee sunset proposal for List 4 Inerts, as well as the proposal for annotation change for inerts. The documents are extensive and complex, and the Chair asked that the LS add its vote to the proposed annotation change in a show of support for the project. The NOP will send the final CS documents to LS for review. Members of the LS felt that the current LS sunset proposal on inerts was adequate, but will compare language to CS for consistency.

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- **Prohibition of NPEs** - The Livestock Subcommittee discussed working jointly with the Crops Subcommittee on the Crops discussion document on NPEs. The LS is considering additional work on a proposal related to use in iodine teat dips, which is a different use than in pesticides. A member added that based on her work on the iodine review she feels that NPEs are a very complex topic and the LS will not have enough time to make a meaningful contribution.

- **Paraciticides. (Ivermectin, Moxidectin, and Fendbendazole).** The LS developed a discussion document in an effort to clarify the annotations. The LS also feels that the withholding periods for these materials are excessive, and will suggest changes. The Subcommittee will include several questions for public comment.

  Motion to accept the discussion document on annotation changes for paraciticides
  Motion by: JR
  Seconded by: FT
  Additional Discussion: The group discussed one of the questions pertaining to the maximum number of uses, and what would disqualify an animal from organic use. Another member asked

about use in some animals and not others. (e.g. turkeys but not other poultry). The lead will make some clarifying edits to the document.
Yes: 6 No: 0 Abstain: 0 Absent: 0 Recuse: 0

- **The meeting was adjourned**

Previous LS Notes
Future Call Schedule:
August 4, 2015
Finalize Research Priorities
2017 sunset - Tolazoline §205.603
2017 sunset - Xylazine §205.603 - deferred to next call.
2017 sunset - Oxytocin
2017 sunset - Electrolytes
Paraciticides - Annotation Change
August 18, 2015
2017 sunset - Atropine (JR). Discuss review and vote.
2017 sunset - Flunixin and Furosemide (AS). Discuss review and vote.
2017 sunset - Xylazine (CBo). Discussion and vote. Deferred
August 25, 2015 - additional call
2017 sunset - Xylazine (CBo). Discussion and vote.
2017 sunset - Magnesium hydroxide (AS)
2017 sunset - Magnesium sulfate (AS)
List 4 Inerts proposal for sunset review - Re-review and modify if necessary.
September 1, 2015
September 15, 2015
October 6, 2015
October 20, 2015
November 3, 2015
November 17, 2015
December 1, 2015
December 15, 2015

Fall 2015 Milestones	Target date
NOP - Complete Fall 2015 NOSB meeting tentative agenda	July 8, 2015
Request for TRs for 2018 sunset materials	July 15, 2015
NOSB - Fall 2015 proposals due to NOP	Aug 26, 2015
NOP - Post proposals, Publish FRN, Open public comment	Sep 8, 2015
Discuss work agendas on ES call	Sep 11, 2015
Public comment webinars	Oct 13 & 20, 2015
Public comment closes	Oct 5, 2015

Work agendas finalized on ES call (last call before fall meeting)	Oct 8, 2015
NOP - Send compiled public comments to NOSB	Oct 13, 2015
Fall 2015 NOSB meeting - Stowe, VT	Oct 26 - 29, 2015

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy or regulations. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

National Organic Standards Board (NOSB)
Livestock/Aquaculture Subcommittee (LS) Meeting Notes
Tuesday, August 25 2015 3:00pm ET

Attending: Tracy Favre, Chair (TF); Ashley Swaffar (AS), Co-VC; Colehour Bondera (CBo); Jean Richardson (JR); Calvin Walker, Vice Chair (CW)
Absent: Francis Thicke (FT)
Staff: Michelle Arsenault (MA); Emily Brown Rosen (EBR)

Work Agenda

Petitioned Materials						
Substance	**Nat'l List §**	**Contact**	**TR requested**	**Notes**	**Vote**	**Meeting**
Aluminum Sulfate (PDF)	205.603	JR	2015	The petitioner requests two related allowances on the NL: (1) treatment of poultry litter (205.603) and (2) application of treated poultry litter to the field (205.601). Sent to LS 03 12 14. TR request sent to NOP 06 18 14. TR expected Jan 2015. TRs (2) sent to LS 05 15 15. Suff due 07 15 15. TR found suff 06 23 15		Proposal Spring 2016
Petition for Sodium Bisulfate Petition Addendum	205.603	JR	2015	Petition sent to LS 05 27 14. Q's for petitioner/TR request due 07 28 14. TR request sent to NOP 08 06 14. TR expected Jan 2015. TR sent to LS 05 14 15. Suff due 07 14 15. TR found suff 05 19 15. Pet Addendum sent to LS 08 20 15.		Proposal Spring 2016
Acid-Activated Bentonite	205.603	AS	Y Lmtd Scope	Petition sent to LS 04 03 15. Q's for petitioner. TR request due 06 02 15. Petition found suff 06 02 15. Determine need for TR. Rqst for Lmtd scope TR sent to NOP 06 23 15 Two related petitions pending for treatment of poultry litter: **sodium bisulfate** and **aluminum sulfate**. TAP for Kaolin Clay and Bentonite 1995		Proposal Spring 2016

Aquaculture-CO_2, (for aquatic plants)	205.609	TF/CBo	N	Petition sent to CS 5 30 12. Will rqst modification from petitioner (for use pattern). Updated petition was deemed sufficient. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Chlorine (for aquatic plants)	205.609	FT	2011 Crops TR 2006 TR 1995 TAP	Petition sent to CS on 5 30 12. Determine petition sufficiency. CS requested clarification from petitioner 11 20 12. 2011 TR deemed suff for this review 11 20 12. Additional aquaculture TR deemed unnecessary. Sent follow up questions to petitioner. Response deemed sufficient.	NA	Proposal TBD
Aquaculture-Micronutrients (for aquatic plants)	205.609	FT	2010 TR (Nickel) 6/2013 Minerals TR	Petition sent to CS on 06 08 12. Petition sufficiency response due 08 08 12? CS sent request to NL Mgr 12 04 12 for additional info. Questions clarified by petitioner. Petition found sufficient 06 18 13 and 07 02 13. TR deemed unnecessary.	NA	Proposal TBD
Aquaculture-Lignin sulfonate (chelating agent for aquatic plants) (for aquatic plants) CAS #s 9009-75-0, 8062-15-5, 8061-51-6	205.609	JR	2/2011 Crops TR 7/2013 TR Aquatic Animals TR	Petition sent to CS on 07 03 12. Petition Sufficiency Response due 09 04 12. CS sent request to NL Mgr 12 04 12 for additional info and TR. Questions clarified by petitioner. Petition found sufficient 6 18 13 and 07 02 13.	NA	Proposal TBD
Aquaculture-Vitamins (B1, B12, H) for aquatic plants	205.609	CW	4/2013 Aquatic Animals TR	Petition sent to CS 08 10 12. Petition Sufficiency response due 10 10 12. Petition found sufficient 06 18 13.	NA	Proposal TBD
Aquaculture - Biologics: Vaccines for Aquatic Animals	205.611	JR	2011 TR (Vaccines made from GMOs)	Petition sent to LS 06 14 12. Petition found sufficient and TR requested on 05 21 13. (NOP note: TR sent to LS 01 24 14. TR deemed sufficient 02 03 14	NA	Proposal TBD

Aquaculture - Chlorine (for aquatic animals)	205.611	FT	No Crops 2011 Crops 2006 Crops 1995 Livestock 2006 Handling 2006	Petition sent to LS on 05 30 12. Petition found sufficient 07 03 12. No TR requested	NA	Proposal TBD
Aquaculture – Tocopherols (for aquatic animals)	205.611	TF/CBo	2013 TR 1995 TAP rvw	Petition sent to LS on 05 30 12. Petition found sufficient 08 06 12. TR requested 08 06 12. Draft TR sent to LS on 04 16 13. TR found sufficient 06 04 13	NA	Proposal TBD
Aquaculture – Vitamins (for aquatic animals)	205.611	CW/FT	Yes 2013 TR	Petition sent to LS on 05 30 12. Response due ~07 30 12. Petition found sufficient 08 06 12. Requested joint TR with Minerals 08 06 12. TR sent to LS 04 29 13. TR found suff 06 18 13.	NA	Proposal TBD
Aquaculture - Trace Minerals (for aquatic animals)	205.611	CW/FT	2013 TR	Petition sent to LS on 06 08 12. Response due ~08 08 12. Petition found sufficient 08 06 12? Requested joint TR with Vitamins 08 06 12. TR sent to LS 06 25 13. Suff due 08 27 13. TR found sufficient 07 16 13. Fall 2013 meeting cancelled.	NA	Proposal TBD

2017 Sunsets TR Requests Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**TR requested**	**Notes**	**Discussion scheduled:**	**Meeting**
Ethanol §205.603	TF	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	08 18 15	Review: Fall 2015
Isopropanol §205.603	CW	Y	Draft TR sent to LS 09 24 14. Suff due 11 24 14. TR found sufficient 01 06 15	06 16 16	
Chlorhexidine §205.603	FT/CW	2010 TR Y	TR requested 08 15 14. TR expected Jan/Feb 2015. TR sent to LS 02 26 15. Suff due 03 06 15. TR found suff 03 03 15.	06 16 15	
Copper sulfate §205.603	TF	1995 TAP 2015 Lmtd Scope	TR in development (expected Dec 2014). TR sent to LS 02 13 15. Suff due 03 06 15. TR found suff 02 17 15	05 26 15	

Electrolytes §205.603	CW	1995 TAP 2015 TR	TR expected Jan/Feb 2015. TR sent to LS 03 27 15. Suff due ASAP. TR found suff 04 07 15	08 04 15	
Excipients §205.603	JR	Y	TR expected Jan/Feb 2015. TR sent to LS 02 26 15. Suff due 03 06 15. TR found suff 03 03 15.	06 23 15	
Fenbendazole §205.603	FT	1999 TR Y	Combined with other paraciticides (Moxidectin and Ivermectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP	05 19 15 Vote 06 02 15	
Ivermectin §205.603	FT	1999 TR Y	Combined with other paraciticides (Fendbendazole and Moxidectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP	05 19 15 Vote 06 02 15	
Moxidectin §205.603	FT	2003 TR Y	Combined with other paraciticides (Fendbendazole and Ivermectin). TR expected Jan/Feb 2015. TR sent to LS 04 20 15. TR suff due ASAP	05 19 15 Vote 06 02 15	
Hydrated lime §205.603(b)	TF	1995 TAP	TR expected Jan/Feb 2015. TR sent to LS 03 27 15. Suff due ASAP. TR found suff 04 07 15	06 23 15	
Hydrogen peroxide §205.603(a)	CW	Y (for Crops 205.601(a))	TR for Crops expected Jan/Feb 2015	06 16 15	
Iodine 205.603(a)(14) and 205.603(b)(2)	JR	1994 TAP 2015 TR	TR expected Jan/Feb 2015. TR sent to LS 01 07 15. Suff due 03 06 15. TR found sufficient 01 20 15	06 23 15	
Mineral oil §205.603	PD	2002 TR 2015 TR	TR expected Jan/Feb 2015	07 21 15	
Vitamins §205.603(d)	CW	2015 Lmtd scope	TR expected Jan/Feb 2015	06 02 15	

2017 Sunsets (No TRs) Summary: Spr 2015 Review: Fall 2015					
Substance	**Contact**	**New TR reqst?**	**Notes**	**Discussion scheduled**	**Meeting**
Aspirin §205.603	JR	N (04 01)		05 19 15	Review: Fall 2015
Atropine §205.603	TF	N (06 03)		08 18 15	
Butorphanol §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	07 07 15	
Chlorine Mtrls: Calcium hypochlorite §205.603	FT	N (06 17)		07 21 15	
EPA List 4 - Inerts of Minimal Concern §205.603	TF	N (06 03)	TR for NPEs sent to CS 01 30 15. No action by LS needed.	05 26 15	

Flunixin §205.603	TF	N (06 03)		08 18 15	
Formic Acid §205.603	CBo	N (06 17)		07 07 15	
Furosemide §205.603	TF	N (06 03)		08 18 15	
Glucose §205.603	CW	N (07 01)		06 16 15	
Glycerine §205.603	TF	N (06 03)		05 26 15	
Lidocaine §205.603	JR	N (04 01)		05 19 15	
Magnesium hydroxide §205.603	AS	N		08 25 15	
Magnesium sulfate §205.603	AS	N		08 25 15	
Methionine §205.603	TF	N		06 02 15	
Oxytocin §205.603	CW	N (07 01)		08 04 15	
Peracetic acid §205.603	JR	N (04 01)		07 21 15	
Phosphoric acid §205.603	JR	N (04 01)		05 26 15	
Poloxalene §205.603	FT	N		06 16 15	
Procaine §205.603	JR	N (04 01)		05 19 15/ & 08 04 15	
Strychnine 205.604	JR	N (04 01)		05 26 15	
Sucrose octanoate esters §205.603	FT	N		06 16 15	
Trace minerals §205.603	FT	N		06 23 15	
Vaccines §205.603	JR	N (04 01)		05 26 15	
Tolazoline §205.603	FT	2002 TR Y	New TR requested. Not contracted.	08 04 15	
Xylazine §205.603	CBo	2002 TR Y	New TR requested. Not contracted.	08 25 15	

Other projects

Project	Contact	TR Reqst?	Notes	Vote	Meeting
Annotation Changes Procaine Lidocaine Parasiticides	JR		Discussed at ES meeting 07 10 15. Discussion docs	07 21 15/08 04 15/08 18 15	Fall 2015

Annotation Changes NPEs (Iodine) Trace Minerals	JR		LS has not yet requested these items. Will discuss further at a later date		TBD

* Yellow highlight indicates committee action needed *Highlight indicates review completion

Agenda

- Approve notes from August 18, 2015
- 2017 sunset - Xylazine (CBo). Discussion and vote.
- 2017 sunset - Magnesium hydroxide (AS)
- 2017 sunset - Magnesium sulfate (AS)
- List 4 inerts in pesticides sunset review/List 4 annotation change proposal from Crops
- Adjourn

Discussion

- **Notes from the August 18, 2015** call were approved with no changes.
- **2017 sunset - Xylazine (CBo).** Discussion and vote. The lead made some edits suggested during a previous call to shorten the document and make it more concise. The lead asked about the reference to the FDA and the NOP added that the FDA was consulted, which resulted in the current listing with annotation.

  Motion to remove from §205.603
  Motion by: JR
  Seconded by: AS
  Additional Discussion: none
  Yes: 0 No: 5 Abstain: 0 Absent: 1 Recuse: 0

- **2017 sunset - Magnesium hydroxide (AS)**. Used for upset stomach and as a laxative. Substitute for lime. The HS did not include specific questions for the last posting. No commenters opposed relisting. The 2007 TR did not focus only on Livestock use, but also included info about fertilizer so the members felt that it was not very useful. The group discussed requesting a new TR for future reviews.

  Motion to remove Magnesium hydroxide from §205.603
  Motion by: AS
  Seconded by: CW
  Additional Discussion: Members discussed specific sections in the proposal and made some edits
  Yes: 0 No: 5 Abstain: 0 Absent: 1 Recuse: 0

- **2017 sunset - Magnesium sulfate (AS).** Magnesium sulfate has a number of veterinary uses such as an anticonvulsant, laxative, and bronchodilator. The HS didn't pose any specific questions for public comment, and the few comments they received were supportive. None opposed relisting.

  Motion to remove Magnesium sulfate from §205.603.

Motion by: AS
Seconded by: CW
Additional Discussion: none
Yes: 0 No: 5 Abstain: 0 Absent: 1 Recuse: 0

- **List 4 inerts in pesticides sunset review.** The LS already voted on this proposal and although they made some minor language changes to the doc the vote will remain as taken.

- **List 4 annotation change proposal from Crops.** During the last call, the LS Chair suggested that the LS members review both the Crops Subcommittee sunset proposal for List 4 Inerts, as well as the proposal for annotation change for inerts. The documents are extensive and complex, and in a show of support for this project the LS chose to add its vote to the document.

  Vote to accept the List 4 annotation change proposal from the Crops Subcommittee
  Motion by: TF
  Seconded by: JR/AS
  Additional Discussion: none
  Yes: 5 No: 0 Abstain: 0 Absent: 1 Recuse: 0

- The LS will cancel the September 1 call.
- Board members expressed their support for Ashley Swaffar, in light of the recent letter that was sent to the NOP requesting her resignation. The Board members noted that she provides a very knowledgeable and balanced perspective and are pleased with her contributions to the NOSB. Members expressed their concern and disapproval that some stakeholders are making personal attacks on Board members.

- **The meeting was adjourned**

Previous LS Notes
Future Call Schedule:
August 18, 2015
2017 sunset - Atropine (JR). Discuss review and vote.
2017 sunset - Flunixin and Furosemide (AS). Discuss review and vote.
2017 sunset - Xylazine (CBo). Discussion and vote. Deferred
August 25, 2015 - additional call
2017 sunset - Xylazine (CBo). Discussion and vote.
2017 sunset - Magnesium hydroxide (AS)
2017 sunset - Magnesium sulfate (AS)
List 4 Inerts proposal for sunset review - Re-review and modify if necessary.
September 1, 2015
September 15, 2015
October 6, 2015
October 20, 2015
November 3, 2015
November 17, 2015
December 1, 2015
December 15, 2015

Fall 2015 Milestones	Target date
NOP - Complete Fall 2015 NOSB meeting tentative agenda	July 8, 2015
Request for TRs for 2018 sunset materials	July 15, 2015
NOSB - Fall 2015 proposals due to NOP	Aug 26, 2015
NOP - Post proposals, Publish FRN, Open public comment	Sep 8, 2015
Discuss work agendas on ES call	Sep 11, 2015
Public comment webinars	Oct 13 & 20, 2015
Public comment closes	Oct 5, 2015
Work agendas finalized on ES call (last call before fall meeting)	Oct 8, 2015
NOP - Send compiled public comments to NOSB	Oct 13, 2015
Fall 2015 NOSB meeting - Stowe, VT	Oct 26 - 29, 2015