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National Organic Standards Board (NOSB)
Livestock/Aquaculture Subcommittee (LS) Meeting Notes
Tuesday, January 5, 2016 3:00pm ET

Attending: Ashley Swaffar (AS), Chair; Tracy Favre, (TF); Francis Thicke (FT); Jean Richardson (JR); 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**	**Scheduled for disc/ Vote**	**Meeting**
Aluminum Sulfate (PDF)	205.603	AS	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	Jan 19	Proposal Spr 2016
Sodium Bisulfate Petition Addendum	205.603	AS	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.	Jan 19	Proposal Spr 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. TR in development 11 17 15 Two related petitions pending for treatment of poultry litter: **sodium bisulfate** and **aluminum sulfate**. TAP for Kaolin Clay and Bentonite 1995	Jan 19	Proposal Spr 2016

Hypochlorous Acid	205.605 and 205.601	FT	2015	NOP Policy Memo 14-3: Electrolyzed Water (PDF) Petition sent to HS 06 03 15. Response/request for TR due 08 03 15. TR request sent to NOP 07 21 15. TR sent to HS 08 13 15. TR suff due 10 13 15. TR found suff 01 05 16	Jan 5, Jan 19	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
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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
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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
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Other projects					
Project	**Contact**	**TR Reqst?**	**Notes**	**Discussion /Vote**	**Meeting**
Annotation Changes Procaine Lidocaine	JR		Discussed at ES meeting 07 10 15. Proposal	Jan 5/vote scheduled Jan 19	Spr 2016

Annotation Changes Parasiticides	JR		Proposal	Jan 5, Jan 19	Spr 2016
Research Priorities (RP)	All	NA	RPs due to MS Aug 2016	Feb 16	Fall 2016

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

Agenda

- Approve notes from December 1, 2015
- Hypochlorous acid (FT) - discuss TR sufficiency
- Lidocaine/Procaine review draft proposals (JR)
- Discuss annotation changes for parasiticides proposals (JR)
- Adjourn

Discussion

- **Notes from the** December 1, 2015 were approved with several corrections. The work agenda (table above) was edited as follows: iodine and trace minerals were removed.
- **Hypochlorous acid (FT).** The petition was targeted towards crop and handling use, and not specifically livestock, but NOP suggested that the LS also review hypochlorous acid, since it is proposed to be included under chlorine materials and has uses in all categories. The lead summarized the petition and found the TR sufficient. The proposal and checklist/analyses will be presented on the next call. TF will coordinate with the lead reviewers for HS and CS.
- **Lidocaine/Procaine review draft proposals (JR).** The LS grouped these materials for discussion and review. The lead circulated a draft document and received feedback from other members. Members discussed the text of the document at length The LS will vote on these materials separately during the next call.
- **Annotation changes for parasiticides proposals (JR).** The draft document was circulated prior to the call and Subcommittee members provided feedback. The lead acknowledged the complexity of the topic and the group discussed at length the specifics of the proposed changes. The lead reviewer will make some modifications based on the discussion and recirculate the document for further review.
- **The meeting was adjourned.**

Previous LS Notes

Future Call Schedule (1st and 3rd Tuesdays 3:00 ET)

December 15, 2015 - cancelled

January 5, 2016,

Lidocaine/Procaine review draft proposals (JR)
Discuss annotation changes for parasiticides proposals (JR)
Hypochlorous acid (FT) - discuss TR sufficiency
Aluminum Sulfate (AS) - discuss proposal
Acid Activated Bentonite (AS) - discuss TR if available
Sodium Bi-sulfate (AS) - discuss proposal

January 19, 2016

Annotation changes for parasiticides proposals (JR). Discuss draft proposal.
Aluminum Sulfate (AS) - discuss proposal
Acid Activated Bentonite (AS) - discuss TR if available
Sodium Bi-sulfate (AS) - discuss proposal
Hypochlorous acid (FT) - discuss proposal/checklist
Lidocaine/Procaine vote (ALL)
Discussion of organic poultry working group

February 2, 2016
February 16, 2016
RP discussion
March 1, 2016
March 15, 2016
April 5, 2016
April 19, 2016
May 3, 2016
May 17, 2016
June 7, 2016
June 21, 2016
July 5, 2016
July 19, 2016
August 2, 2016
August 16, 2016
September 6, 2016
September 20, 2016
October 4, 2016
October 18, 2016
November 1, 2016
November 15, 2016
December 6, 2016
December 20, 2016

Spring 2016 Milestones	Target date
New NOSB member orientation	Feb 04, 2016
NOP - Complete Spring 2016 NOSB meeting tentative agenda	Feb 10, 2016
NOSB - Spring 2016 proposals due to NOP	Feb 26, 2016
NOP - Post proposals, Publish FRN, Open public comment	Mar 8, 2016
Discuss work agendas on ES call	Mar 11, 2016
Public comment webinars	??
Public comment closes	Apr 6, 2016
Work agendas finalized on ES call (last call before fall meeting)	Apr 8, 2016
NOP - Send compiled public comments to NOSB	Apr 11, 2016
Spring 2016 NOSB meeting – Washington, DC	Apr 25 - 27, 2016

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National Organic Standards Board (NOSB)
Livestock/Aquaculture Subcommittee (LS) Meeting Notes
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Absent: Emily Brown Rosen (EBR)
Staff: Michelle Arsenault (MA); Devon Pattillo (DP)

Work Agenda

Petitioned Materials						
Substance	**Nat'l List §**	**Contact**	**TR requested**	**Notes**	**Discussed, Voted**	**Meeting**
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Hypochlorous Acid	205.605 and 205.601	FT	2015	NOP Policy Memo 14-3: Electrolyzed Water (PDF) Petition sent to HS 06 03 15. Response/request for TR due 08 03 15. TR request sent to NOP 07 21 15. TR sent to HS 08 13 15. TR suff due 10 13 15. TR found suff 01 05 16	Jan 5, Feb 2	Spr 2016
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Project	**Contact**	**TR Reqst?**	**Notes**	**Discussed, Voted**	**Meeting**
Annotation Changes Procaine Lidocaine	JR		Discussed at ES meeting 07 10 15. Proposal	Jan 5, Jan 19	Spr 2016

Annotation Changes Parasiticides	JR		Proposal	Jan 5, Jan 19	Spr 2016
Research Priorities (RP)	All	NA	RPs due to MS Aug 2016	Feb 16	Fall 2016

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

Agenda

- Approve notes from January 5, 2016
- Lidocaine and Procaine Proposal (JR). Vote on proposal
- Parasiticides (JR). Vote on Annotation changes
- Hypochlorous Acid (FT). Discuss proposal
- Discussion of organic poultry working group
- Adjourn

Discussion

- **Notes from the** January 5, 2016 were approved with no changes.
- **Lidocaine/Procaine (JR).** The lead summarized the draft proposal and noted that there was broad support from the public for the proposed annotation changes. Several members provided additional comments and feedback. The lead will add the suggestions and recirculate the final document as voted. The group proceeded to a vote, and offered to leave the vote open for one member who was absent for the first part of the conference call.
  (Underlined text to be added, and strike-through language to be removed).

  Motion to amend the Lidocaine listing as follows: (4) Lidocaine—as a local anesthetic. Use requires a withdrawal period of ~~90 days~~ 8 days after administering to livestock intended for slaughter and ~~7 days~~ 6 days after administering to dairy animals

  Motion by: JR
  Seconded by: FT
  Additional Discussion: none
  Yes: 6 No: 0 Abstain: 0 Absent: 0 Recuse: 0
  Vote will remain open until Friday. **ABS note:** CW voted via email Jan 19, and the vote above was adjusted accordingly.

  Motion to amend the Procaine listing as follows: (7) Procaine —as a local anesthetic. Use requires a withdrawal period of ~~90 days~~ 8 days after administering to livestock intended for slaughter and ~~7 days~~ 6 days after administering to dairy animals.

  Motion by: JR
  Seconded by: FT
  Additional Discussion: none
  Yes: 6 No: 0 Abstain: 0 Absent: 0 Recuse: 0
  Vote will remain open until Friday. **ABS note:** CW voted via email Jan 19, and the vote above

was adjusted accordingly.

- **Annotation changes for parasiticides proposals (JR).** Three parasiticides underwent sunset review in 2015. Each material received a considerable amount of public comment. Simultaneous with the sunset review, the LS considered a discussion document about amending the parasiticides listing, for which the NOSB also received many comments. The lead author will circulate the final document incorporating minor edits.to the group that will incorporate some minor comments from the other members.

For all five (5) motions to amend the annotations, the underlined language will be added, and the struck-out language deleted.

1. Motion to amend §205.238(b)(2) as follows: Dairy ~~stock~~ animals- cows, when used a minimum of 90 days after use of Ivermectin, or 2 days after use of Fenbenzadole or Moxidectin, prior to the production of milk or milk products that are to be sold, labeled, or represented as organic.

   AND

   Motion to amend §205.603(a)(18) as follows: Milk or milk products from a treated ~~animal~~ cow cannot be labeled as provided for in subpart D of this part for 90 days following treatment with Ivermectin, or 2 days following treatment with Fenbenzadole or Moxidectin, prior to the production of milk or milk products that are to be sold, labeled, or represented as organic.

   Motion: JR
   Second: FT
   Additional discussion: none
   Yes: 6 No: 0 Abstain: 0 Recuse: 0 Absent: 0

2. Motion to add §205.238(b)(3) as follows: Dairy animals-goats/sheep when used a minimum of 90 days after use of Ivermectin, or 36 days after use of Fenbenzadole or Moxidectin.

   AND

   Motion to amend §205.603(a)(18) as follows: "…Milk or milk products from a treated ~~animal~~ goat/sheep cannot be labeled as provided for in subpart D of this part for 90 days following treatment with Ivermectin, or 36 days following treatment with Fenbenzadole or Moxidectin.

   Motion: JR
   Second: FT
   Additional discussion: none

Yes: 6 No: 0 Abstain: 0 Recuse: 0 Absent: 0

3. Motion to amend §205.603(a)(18)(i) as follows: Fenbendazole (CAS #43210-67-9) - ~~only for use by or on the lawful written order of a licensed veterinarian~~

   Motion: JR
   Second: FT
   Additional discussion: none
   Yes: 6 No: 0 Abstain: 0 Recuse: 0 Absent: 0

4. Motion to amend §205.603(a)(18)(iii) as follows: Moxidectin (CAS #113507-06-5)~~—for control of internal parasites only~~

   Motion: JR
   Second: TF
   Further discussion: none
   Yes: 6 No: 0 Abstain: 0 Recuse: 0 Absent: 0

5. Motion to amend §205.238(b)(4) to add <u>(3) Fiber bearing animals, when used a minimum of 90 days prior to production of fleece or wool that is to be sold, labeled or represented as organic.</u>

   AND

   Motion to amend §205.603(a)(18) to add- <u>Allowed for fiber bearing animals when used a minimum of 90 days prior to production of fleece or wool that is to be sold, labeled or represented as organic.</u>

   Motion: JR
   Second: TF
   Additional discussion: none
   Yes: 6 No: 0 Abstain: 0 Recuse: 0 Absent: 0

- **Hypochlorous acid (FT).** Discussion deferred to next call. The lead author will review this material in light of the conversations on the HS and CS.
- **Organic poultry working group.** As previously discussed the NOSB is considering the idea of forming a working group or task force to look at methionine issues. The members discussed the differences between the options: A Task Force would involve the issuance of a Federal Register notice and a call for nominees, and would be comprised of external (non NOSB and non-government) members. A working group would involve current NOSB members, and would be simpler to form. The majority of members were supportive of having a task force, which would allow external stakeholders to participate. The group discussed the need to clarify the objectives for this task force before determining a way forward. Several members emphasized the need to

refer to the NOSB resolution about methionine that was put forth last year as part of a recommendation. Additionally, a member suggested that this resolution be put into a broader context, and not just focus on methionine. The LS will discuss the next steps during the February 2 call.

- **Other items -** none
- **The meeting was adjourned.**

Previous LS Notes

Future Call Schedule (1st and 3rd Tuesdays 3:00 ET)

January 5, 2016,

Lidocaine/Procaine review draft proposals (JR)
Discuss annotation changes for parasiticides proposals (JR)
Hypochlorous acid (FT) - discuss TR sufficiency
Aluminum Sulfate (AS) - discuss proposal
Acid Activated Bentonite (AS) - discuss TR if available
Sodium Bi-sulfate (AS) - discuss proposal

January 19, 2016

Annotation changes for parasiticides proposals (JR). Discuss draft proposal.
Aluminum Sulfate (AS) - discuss proposal
Acid Activated Bentonite (AS) - discuss TR if available
Sodium Bi-sulfate (AS) - discuss proposal
Hypochlorous acid (FT) - discuss proposal/checklist
Lidocaine/Procaine vote (ALL)
Discussion of organic poultry working group

February 2, 2016

Aluminum Sulfate (AS) - discuss proposal
Acid Activated Bentonite (AS) - discuss TR if available
Sodium Bi-sulfate (AS) - discuss proposal
Hypochlorous acid (FT) - discuss proposal and vote
Organic poultry working group. Determine lead/liaison

February 16, 2016

RP discussion

March 1, 2016
March 15, 2016
April 5, 2016
April 19, 2016
May 3, 2016
May 17, 2016
June 7, 2016
June 21, 2016
July 5, 2016
July 19, 2016
August 2, 2016
August 16, 2016
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September 20, 2016
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Livestock/Aquaculture Subcommittee (LS) Meeting Notes
Tuesday, February 2, 2016 3:00pm ET

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Absent: none
Staff: Michelle Arsenault (MA); Emily Brown Rosen (EBR)

Work Agenda

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Hypochlorous Acid	205.601, 205.603 and 205.605	FT	2015	NOP Policy Memo 14-3: Electrolyzed Water (PDF) Petition sent to HS 06 03 15. Response/request for TR due 08 03 15. TR request sent to NOP 07 21 15. TR sent to HS 08 13 15. TR suff due 10 13 15. TR found suff 01 05 16	Jan 5, Feb 2, Feb 16	Spr 2016
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Agenda

- Approve notes from January 19, 2016
- Hypochlorous acid (FT) - discuss proposal and vote
- Organic poultry working group. Determine lead/liaison
- Adjourn

Discussion

- **Notes** from the January 19, 2016 call were approved with no changes
- **Introductions. The members made brief introductions for the benefit of the new members.**
- **Hypochlorous acid (FT).** The lead summarized the substance for the group, as was done during the two other Subcommittee calls today (Handling and Crops). Hypochlorous acid is a product of hydrolysis of a sodium chloride solution (also called "electrolyzed water") and is considered to be a better and safer sanitizer than chlorine. The lead provided an overview and asked for feedback from the group. Members discussed an annotation regarding on-site production and pH levels. There was support for the inclusion of an annotation regarding on-site manufacture, but members felt an annotation regarding pH was unnecessary. The LS voted to classify this material and deferred the vote to add it to the National List so they could discuss further.

  Motion to classify hypochlorous acid as petitioned as synthetic
- Motion by: FT
  Seconded by: JR
  Additional discussion: A new member asked a procedural question about voting
  Yes: 8 No: 0 Abstain: 0 Absent: 0 Recuse: 0

- Paraciticides (JR). The document, which was voted on previously, was reworded slightly to assist in rulemaking, but no substantive changes were made. The lead author presented the modifications and the members agreed that the proposal was not changed. Therefore the previous motions and votes carry and the document will be posted for public comment and brought forth to the NOSB for a vote at the April 2016 meeting.

- **Organic poultry working group.** The LS Chair asked that members review some of the previous conversations and the 2015 NOSB Methionine recommendation so they can come prepared to discuss the possibility of a working group on poultry.
- **Other items** - none
- **The meeting was adjourned.**

Previous LS Notes

Future Call Schedule (1st and 3rd Tuesdays 3:00 ET)

January 19, 2016

- Annotation changes for parasiticides proposals (JR). Discuss draft proposal.
- Aluminum Sulfate (AS) - discuss proposal
- Acid Activated Bentonite (AS) - discuss TR if available
- Sodium Bi-sulfate (AS) - discuss proposal
- Hypochlorous acid (FT) - discuss proposal/checklist
- Lidocaine/Procaine vote (ALL)
- Discussion of organic poultry working group

February 2, 2016

- Aluminum Sulfate (AS) - discuss proposal
- Acid Activated Bentonite (AS) - discuss TR if available
- Sodium Bi-sulfate (AS) - discuss proposal
- Hypochlorous acid (FT) - discuss proposal and vote
- Organic poultry working group. Determine lead/liaison

February 16, 2016

- Aluminum Sulfate (AS) - discuss proposal
- Acid Activated Bentonite (AS) - discuss TR if available
- Sodium Bi-sulfate (AS) - discuss proposal
- Research Priorities discussion

March 1, 2016
March 15, 2016
April 5, 2016
April 19, 2016
May 3, 2016
May 17, 2016
June 7, 2016
June 21, 2016
July 5, 2016
July 19, 2016
August 2, 2016
August 16, 2016
September 6, 2016
September 20, 2016
October 4, 2016
October 18, 2016
November 1, 2016
November 15, 2016
December 6, 2016
December 20, 2016

Spring 2016 Milestones	Target date
New NOSB member orientation	Feb 29, 2016
NOP - Complete Spring 2016 NOSB meeting tentative agenda	Feb 10, 2016
NOSB - Spring 2016 proposals due to NOP	Feb 26, 2016
NOP - Post proposals, Publish FRN, Open public comment	Mar 8, 2016
Discuss work agendas on ES call	Mar 11, 2016
Public comment webinars	??
Public comment closes	Apr 6, 2016
Work agendas finalized on ES call (last call before fall meeting)	Apr 8, 2016
NOP - Send compiled public comments to NOSB	Apr 11, 2016
Spring 2016 NOSB meeting – Washington, DC	Apr 25 - 27, 2016

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 16, 2016 3:00pm ET

Attending: Ashley Swaffar (AS), Chair; Francis Thicke (FT), Vice Chair; Harriet Behar (HB); Jesse Buie (JB); Tracy Favre, (TF); Jean Richardson (JR); A-dae Briones (AB); Dan Seitz (DS)
Absent: none
Staff: Michelle Arsenault (MA); Emily Brown Rosen (EBR)

Work Agenda

Petitioned Materials						
Substance	**Nat'l List §**	**Contact**	**TR requested**	**Notes**	**Discussed, Voted**	**Meeting**
Aluminum Sulfate (PDF)	205.603	AS	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. Waiting for TR for Acid-Activated Bentonite	TBD	Proposal fall 2016
Sodium Bisulfate Petition Addendum	205.603	AS	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. Waiting for TR for Acid-Activated Bentonite	TBD	Proposal fall 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. TR in development 11 17 15 Two related petitions pending for treatment of poultry litter: **sodium bisulfate** and **aluminum sulfate**. TAP for Kaolin Clay and Bentonite 1995	TBD	Proposal fall 2016
Hypochlorous Acid	205.601, 205.603 and 205.605	FT	2015	NOP Policy Memo 14-3: Electrolyzed Water (PDF) Petition sent to HS 06 03 15. Response/request for TR due 08 03 15. TR request sent to NOP 07 21 15. TR sent to HS 08 13 15. TR suff due 10 13 15. TR found suff 01 05 16	Jan 5, Feb 2, Feb 16	Spr 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

Other projects					
Project	**Contact**	**TR Reqst?**	**Notes**	**Discussed, Voted**	**Meeting**
Annotation Changes Procaine Lidocaine	JR		Discussed at ES meeting 07 10 15. Proposal	Jan 5, Jan 19	Spr 2016
Annotation Changes Parasiticides	JR		Proposal	Jan 5, Jan 19	Spr 2016
Research Priorities (RP)	All	NA	RPs due to MS Aug 2016	Feb 16, Apr 5	Fall 2016
Organic Poultry task force	TF/AB/AS/ HB		Discuss formation of Task Force	NA	NA

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

Agenda

- Approve notes from February 2, 2016
- Hypochlorous Acid vote (FT)
- Organic Poultry Working Group Discussion
- Research Priorities Discussion
- Adjourn

Discussion

- **Notes** from the February 2, 2016 were approved with no changes
- **Research Priorities Discussion.** The co-leads have circulated some background information and ideas and will discuss this further before bringing this to the April 5 Subcommittee call.
- **Hypochlorous Acid vote (FT).** The lead discussed hypochlorous acid briefly, since the LS has discussed this previously. In order to align the proposal with the other two Subcommittees who

are also reviewing this (Crops and Handling) the LS will not include an annotation. Additionally, the LS talked about including this as a subheading under chlorine materials. The LS previously voted on the classification of hypochlorous acid and moved to the vote on the motion to add.

Motion to add **Hypochlorous Acid** as petitioned at §205.603(a)(7) chlorine materials….(iv) Hypochlorous acid
Motion by: FT
Seconded by: JB
Additional discussion: none
Yes: 7 No: 0 Abstain: 1 Absent: 0 Recuse: 0

- **Organic Poultry Working Group Discussion.** The group discussed the background information that was circulated to the members after the last LS call. There is strong support within the Subcommittee for the formation of a task force to provide the NOSB with guidance on the use of various materials in poultry production systems. A member noted that the animal welfare standards will help inform this topic, but feels there is a need to look at organic poultry systems holistically and with a long term vision. Members discussed various paths forward and the potential deliverables from such a task force. The lead will recirculate the justification document that was previously submitted to the NOP so the new members can participate in the decision for this project. Several members volunteered to discuss this offline to determine how to move forward, and will brief the group on the next call.
- **Other items.**
    - The LS Chair informed the members that she was contacted last week by stakeholders regarding kelp.
    - The Chair reminded the members that the public comment will open ~March 8
- **The meeting was adjourned.**

Previous LS Notes

Future Call Schedule (1st and 3rd Tuesdays 3:00 ET)

February 2, 2016
Aluminum Sulfate (AS) - discuss proposal
Acid Activated Bentonite (AS) - discuss TR if available
Sodium Bi-sulfate (AS) - discuss proposal
Hypochlorous acid (FT) - discuss proposal and vote
Organic poultry working group. Determine lead/liaison

February 16, 2016
Aluminum Sulfate (AS) - discuss proposal
Acid Activated Bentonite (AS) - discuss TR if available
Sodium Bi-sulfate (AS) - discuss proposal
Research Priorities discussion

March 1, 2016 - cancelled

March 15, 2016
Organic Poultry Working Group Discussion

April 5, 2016
Research Priorities Discussion

April 19, 2016

May 3, 2016
May 17, 2016
June 7, 2016
June 21, 2016
July 5, 2016
July 19, 2016
August 2, 2016
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September 20, 2016
October 4, 2016
October 18, 2016
November 1, 2016
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December 6, 2016
December 20, 2016

Spring 2016 Milestones	Target date
New NOSB member orientation	Feb 29, 2016
NOP - Complete Spring 2016 NOSB meeting tentative agenda	Feb 10, 2016
NOSB - Spring 2016 proposals due to NOP	Feb 26, 2016
NOP - Post proposals, Publish FRN, Open public comment	Mar 8, 2016
Discuss work agendas on ES call	Mar 11, 2016
Public comment closes	Apr 6, 2016
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Public comment webinar	Apr 18, 2016
Spring 2016 NOSB meeting – Washington, DC	Apr 25 - 27, 2016

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National Organic Standards Board (NOSB)
Livestock/Aquaculture Subcommittee (LS) Meeting Notes
Tuesday, March 15, 2016 3:00pm ET

Attending: Ashley Swaffar (AS), Chair; Vice Chair; Harriet Behar (HB); Jesse Buie (JB); Tracy Favre, (TF); Dan Seitz (DS); A-dae Briones (AB); Francis Thicke (FT); Carmela Beck (CBe) - sitting in
Absent: Jean Richardson (JR)
Staff: Michelle Arsenault (MA); Emily Brown Rosen (EBR)

Work Agenda

Petitioned Materials						
Substance	**Nat'l List §**	**Contact**	**TR requested**	**Notes**	**Discussed, Voted**	**Meeting**
Aluminum Sulfate (PDF)	205.603	AS	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. Waiting for TR for Acid-Activated Bentonite TR rcvd 03 03 16.	TBD	Proposal fall 2016
Sodium Bisulfate Petition Addendum	205.603	AS	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. Waiting for TR for Acid-Activated Bentonite. TR rcvd 03 03 16.	TBD	Proposal fall 2016

Acid-Activated Bentonite	205.603	AS	2016 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. TR in development 11 17 15. TR sent to LS 03 03 16. Suff due 05 03 16. TR found suff 03 15 16 Two related petitions pending for treatment of poultry litter: **sodium bisulfate** and **aluminum sulfate**. TAP for Kaolin Clay and Bentonite 1995	TBD	Proposal fall 2016
Hypochlorous Acid	205.601, 205.603 and 205.605	FT	2015	NOP Policy Memo 14-3: Electrolyzed Water (PDF) Petition sent to HS 06 03 15. Response/request for TR due 08 03 15. TR request sent to NOP 07 21 15. TR sent to HS 08 13 15. TR suff due 10 13 15. TR found suff 01 05 16	Jan 5, Feb 2, Feb 16	Spr 2016
Sulfur	205.603	AB		Petition sent to HS 03 09 16. Response/request for TR due 05 09 16.	May 17	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
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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
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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

Other projects					
Project	**Contact**	**TR Reqst?**	**Notes**	**Discussed, Voted**	**Meeting**
Annotation Changes Procaine Lidocaine	JR		Discussed at ES meeting 07 10 15. Proposal	Jan 5, Jan 19	Spr 2016
Annotation Changes Parasiticides	JR		Proposal	Jan 5, Jan 19	Spr 2016
Peracetic acid 205.601(a) 205.601(i)	TF	Y	Sunset date: 05 09 18. TR sent to LS 03 04 16. Response due ~ May 3 (date flexible) as this is not currently under review by LS.		TBD
Research Priorities (RP)	All	NA	RPs due to MS Aug 2016	Feb 16, Apr 5	Fall 2016
Organic Poultry task force	TF/AB/AS/ HB		Discuss formation of Task Force	NA	NA

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Agenda

- Approve notes from February 16, 2016
- Organic poultry working group discussion/update
- Sulfur - assign lead to new petition
- Acid activated bentonite (AS). Discuss TR
- Peracetic acid (HA). Update
- Adjourn

Discussion

- **Notes from the February 16, 2016** were approved with no changes
- **Organic poultry working group.** The three co-reviewers discussed the idea of a poultry working group and developed three main goals: 1) To provide NOP with tools for improvement of the organic poultry industry, 2) develop research priorities, and 3) review international practices and alternatives to methionine (MET). The 2015 NOSB recommendation included a resolution to phase out synthetic MET and the goal for the working group would be to support the LS in this endeavor.
- **Sulfur - assign lead to new petition.** The NOSB received a petition for sulfur, which is used as external pest control in livestock. A-dae Briones volunteered to be the lead reviewer for this substance. The group will discuss petition sufficiency on the May 17 call.
- **Acid activated bentonite (AS).** The lead found the TR sufficient and asked for feedback from the members. A member asked about information contained in the technical reports (in general) and if it is independently verified, and if it is evident what information came from the petitioner. TRs do include sources and references.
- **Peracetic acid (HA).** The Crops Subcommittee found the peracetic acid TR sufficient. Three Subcommittees received TRs for peracetic acid: HS, CS and LS although only the Crops Subcommittee is currently reviewing this substance for its 2018 sunset. HS reviewed peracetic acid in 2016 and LS in 2017. Both the HS and LS will assign a lead reviewer for their respective TRs and the three will consult and coordinate with each other.
- **Public comments.** The Chair was asked to share her process for reviewing public comments for the benefit of the new members.
- **The meeting was adjourned.**

Previous LS Notes

Future Call Schedule (1st and 3rd Tuesdays 3:00 ET)

February 16, 2016
- Aluminum Sulfate (AS) - discuss proposal
- Acid Activated Bentonite (AS) - discuss TR if available
- Sodium Bi-sulfate (AS) - discuss proposal
- Research Priorities discussion

March 1, 2016 - cancelled

March 15, 2016
- Organic Poultry Working Group Discussion
- Sulfur - assign lead to new petition
- Acid Activated Bentonite (AS) - discuss TR

April 5, 2016
- Research Priorities Discussion (TF, JR)
- Peracetic Acid - TR sufficiency (TF)

April 18, 2016
- Public comment review
- Sulfur petition sufficiency

May 3, 2016 - cancelled

May 17, 2016
- Sulfur petition sufficiency
- Acid Activated Bentonite (AS)
- Aluminum Sulfate
- Sodium Bisulfate

June 7, 2016
June 21, 2016
July 5, 2016
July 19, 2016
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National Organic Standards Board (NOSB)
Livestock/Aquaculture Subcommittee (LS) Meeting Notes
Tuesday, April 5, 2016 3:00pm ET

Attending: Ashley Swaffar (AS), Chair; Harriet Behar (HB); Tracy Favre, (TF); Dan Seitz (DS); A-dae Briones (AB); Jean Richardson (JR)
Absent: Francis Thicke (FT), Vice Chair; Jesse Buie (JB)
Staff: Michelle Arsenault (MA); Emily Brown Rosen (EBR)

Work Agenda

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Other projects					
Project	**Contact**	**TR Reqst?**	**Notes**	**Discussed, Voted**	**Meeting**
Annotation Changes Procaine Lidocaine	JR		Discussed at ES meeting 07 10 15. Proposal	Jan 5, Jan 19	Spr 2016
Annotation Changes Parasiticides	JR		Proposal	Jan 5, Jan 19	Spr 2016
Peracetic acid 205.601(a) 205.601(i)	TF	Y	Sunset date: 05 09 18. TR sent to LS 03 04 16. Response due ~ May 3 (date flexible) as this is not currently under review by LS. TR found sufficient 04 05 16	04 05 16	TBD
Research Priorities (RP)	All	NA	RPs due to MS Aug 2016	Feb 16, Apr 5	Fall 2016
Organic Poultry task force	TF/AB/AS/ HB		Discuss formation of Task Force	NA	NA

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

Agenda

- Approve notes from March 15, 2016
- Research Priorities Discussion (TF, JR)
- Peracetic Acid - TR sufficiency (TF)
- Adjourn

Discussion

- **Notes from the March 15, 2016** were approved with no changes.

- The Chair was notified that the animal welfare proposed rule will be published in the Federal Register this week, and the NOP will be accepting public comment.
- **Research Priorities (TF, JR).** The NOSB chair participated on a call recently with the Organic Policy Advisor and members of the OWG to discuss research priorities and funding. Two key issues were the length and specificity of the list of Research Priorities and the lack of a vehicle for system based research needs. The OWG requested that the NOSB be more concise and focused when putting forth its research needs, as this will help when communicating funding needs to funding agencies and sources. Additionally, the OWG supports the idea of retaining previous recommendations on the list depending on whether or not they have been addressed or whether they are still necessary and relevant. Members discussed the specific Livestock priorities that were submitted previously, and the leads asked for suggestions for future topics for discussion on the May 17 call.
- **Peracetic Acid (TF).** TRs for peracetic acid were sent to Crops, Handling and Livestock, although only Crops has a pending Sunset review due. The lead summarized the information from the Livestock TR, and indicated that it was comprehensive and thorough. The TR was found sufficient and the LS Chair will notify the NOP.
- **Public comment.** The group briefly discussed comments and will discuss them further on April 18.
- **The meeting was adjourned.**

Previous LS Notes

Future Call Schedule (1st and 3rd Tuesdays 3:00 ET)

March 15, 2016
- Organic Poultry Working Group Discussion
- Sulfur - assign lead to new petition
- Acid Activated Bentonite (AS) - discuss TR

April 5, 2016
- Research Priorities Discussion (TF, JR)
- Peracetic Acid - TR sufficiency (TF)

April 18, 2016
- Public comment review
- Sulfur petition sufficiency (AB)

May 3, 2016 - cancelled

May 17, 2016
- Research Priorities Discussion (TF, JR)
- Sulfur petition sufficiency (AB)
- Acid Activated Bentonite (AS)
- Aluminum Sulfate (AS)
- Sodium Bisulfate (AS)

June 7, 2016

June 21, 2016

July 5, 2016

July 19, 2016

August 2, 2016

August 16, 2016

September 6, 2016

September 20, 2016

October 4, 2016
October 18, 2016
November 1, 2016
November 15, 2016
December 6, 2016
December 20, 2016

Spring 2016 Milestones	Target date
New NOSB member orientation	Feb 29, 2016
NOP - Complete Spring 2016 NOSB meeting tentative agenda	Feb 10, 2016
NOSB - Spring 2016 proposals due to NOP	Feb 26, 2016
NOP - Post proposals, Publish FRN, Open public comment	Mar 16, 2016
Discuss work agendas on ES call	Mar 11, 2016
Public comment closes	Apr 14, 2016
Work agendas finalized on ES call (last call before fall meeting)	Apr 8, 2016
NOP - Send compiled public comments to NOSB	Apr 18, 2016
Public comment webinar	Apr 19, 2016
Spring 2016 NOSB meeting – Washington, DC	Apr 25 - 27, 2016

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 18, 2016 3:00pm ET

Attending: Ashley Swaffar (AS), Chair; Harriet Behar (HB); Tracy Favre, (TF); Dan Seitz (DS); A-dae Briones (AB); Jean Richardson (JR); Francis Thicke (FT), Vice Chair; Jesse Buie (JB)
Absent: none
Staff: Michelle Arsenault (MA); Devon Pattillo (DP)

Work Agenda

Petitioned Materials						
Substance	**Nat'l List §**	**Contact**	**TR requested**	**Notes**	**Discussed, Voted**	**Meeting**
Aluminum Sulfate (PDF)	205.603	AS	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. Waiting for TR for Acid-Activated Bentonite TR rcvd 03 03 16.	TBD	Proposal fall 2016
Sodium Bisulfate Petition Addendum	205.603	AS	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. Waiting for TR for Acid-Activated Bentonite. TR rcvd 03 03 16.	TBD	Proposal fall 2016

Acid-Activated Bentonite	205.603	AS	2016 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. TR in development 11 17 15. TR sent to LS 03 03 16. Suff due 05 03 16. TR found suff 03 15 16 Two related petitions pending for treatment of poultry litter: **sodium bisulfate** and **aluminum sulfate**. TAP for Kaolin Clay and Bentonite 1995	TBD	Proposal fall 2016
Hypochlorous Acid	205.601, 205.603 and 205.605	FT	2015	NOP Policy Memo 14-3: Electrolyzed Water (PDF) Petition sent to HS 06 03 15. Response/request for TR due 08 03 15. TR request sent to NOP 07 21 15. TR sent to HS 08 13 15. TR suff due 10 13 15. TR found suff 01 05 16	Jan 5, Feb 2, Feb 16	Spr 2016
Sulfur	205.603	AB		Petition sent to HS 03 09 16. Response/request for TR due 05 09 16. Petition was found suff 04 18 16. TR request sent to NOP 04 18 16.	May 17	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

Other projects					
Project	**Contact**	**TR Reqst?**	**Notes**	**Discussed, Voted**	**Meeting**
Annotation Changes Procaine Lidocaine	JR		Discussed at ES meeting 07 10 15. Proposal	Jan 5, Jan 19	Spr 2016
Annotation Changes Parasiticides	JR		Proposal	Jan 5, Jan 19	Spr 2016
Peracetic acid 205.601(a) 205.601(i)	TF	Y	Sunset date: 05 09 18. TR sent to LS 03 04 16. Response due ~ May 3 (date flexible) as this is not currently under review by LS. TR found sufficient 04 05 16	04 05 16	TBD
Research Priorities (RP)	All	NA	RPs due to MS Aug 2016	Feb 16, Apr 5	Fall 2016
Organic Poultry task force	TF/AB/AS/ HB		Discuss formation of Task Force	NA	NA

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

Agenda

- Approve notes from March 15, 2016
- Public Comment Recap
- Sulfur Petition Sufficiency (AB)
- Adjourn

Discussion

- **Notes from the March 15, 2016** approved with no changes.

- **A member asked for clarification about the meeting procedures and the difference between proposals and discussion documents.**
- **Public comment.**
    - **Lidocaine & Procaine.** The majority of commenters are in support of the annotation for lidocaine and procaine. The lead is optimistic that the Board will be able to vote on these materials during the fall 2016 meeting.
    - **Parasiticides.** The majority of commenters are in support of the annotation for parasiticides. Commenters noted two difficulties: The definition of emergency use, and the removal of ivermectin. The lead summarized the path forward for ivermectin, which includes a two-stage process – education about alternatives, and then removal. **Hypochlorous acid:** Commenters have raised concerns about sources, although the Board is focused on electrolyzed water. The NOP supports the addition of "as petitioned" to the proposal to clarify. It was noted that this language is already in the proposal. A member suggested adding the phrase from "electrolyzed water" to the annotation, as the Crops Subcommittee did. All three Subcommittee proposals will be aligned.
- **Aquaculture**. Members briefly discussed the aquaculture rule and expressed hope that it will be released this year.
- **Organic Livestock and Poultry Practices (OLPP) proposed rule (aka Animal Welfare).** The NOSB Chair listened to the NOP webinar on OLPP last week, and urged people to disseminate the information about commenting during the open comment period. The NOP continues to reach out to stakeholders to discuss questions that have been raised. A member expressed support for the proposed rule and noted that it needs to be put into context of the rule, and not seen as a standalone document.
- **Sulfur Petition Sufficiency (AB).** The lead summarized the petition, and noted that it satisfies all of the required information for sufficiency. Sulfur is being petitioned for use for repellent of mites, fleas and ticks. Members discussed the potential of requesting a TR since the last TR was from 1995.
- **The meeting was adjourned.**

Previous LS Notes

Future Call Schedule (1st and 3rd Tuesdays 3:00 ET)

April 5, 2016
- Research Priorities Discussion (TF, JR)
- Peracetic Acid - TR sufficiency (TF)

April 18, 2016
- Public comment review
- Sulfur petition sufficiency (AB)

May 3, 2016 - cancelled

May 17, 2016
- Research Priorities Discussion (TF, JR)
- Sulfur petition sufficiency (AB)
- Acid Activated Bentonite (AS) - Discuss proposal
- Aluminum Sulfate (AS) - Discuss proposal
- Sodium Bisulfate (AS) - Discuss proposal

June 7, 2016

June 21, 2016

July 5, 2016
July 19, 2016
August 2, 2016
August 16, 2016
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Spring 2016 Milestones	Target date
New NOSB member orientation	Feb 29, 2016
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National Organic Standards Board (NOSB)
Livestock/Aquaculture Subcommittee (LS) Meeting Notes
Tuesday, May 17, 2016 3:00pm ET

Attending: Ashley Swaffar (AS), Chair; Francis Thicke (FT), Vice Chair; Harriet Behar (HB); Tracy Favre, (TF); Dan Seitz (DS); A-dae Briones (AB); Jean Richardson (JR); Jesse Buie (JB); Lisa de lima (LD) - observer, Harold Austin (HA) - observer
Absent: none
Staff: Michelle Arsenault (MA); Emily Brown Rosen (EBR); Devon Pattillo (DP)

Work Agenda

Petitioned Materials						
Substance	**Nat'l List §**	**Contact**	**TR requested**	**Notes**	**Scheduled, Discussed, Voted**	**Meeting**
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Sodium Bisulfate Petition Addendum	205.603	AS	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. Waiting for TR for Acid-Activated Bentonite. TR rcvd 03 03 16.	Jun 7	Proposal fall 2016

Acid-Activated Bentonite	205.603	AS	2016 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. TR in development 11 17 15. TR sent to LS 03 03 16. Suff due 05 03 16. TR found suff 03 15 16 Two related petitions pending for treatment of poultry litter: **sodium bisulfate** and **aluminum sulfate**. TAP for Kaolin Clay and Bentonite 1995	Jun 7	Proposal fall 2016
Sulfur	205.603	AB		Petition sent to HS 03 09 16. Response/request for TR due 05 09 16. Petition was found suff 04 18 16. TR request sent to NOP 04 18 16.	May 17	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
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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
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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

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Other projects					
Project	**Contact**	**TR Reqst?**	**Notes**	**Discussed, Voted**	**Meeting**
Peracetic acid 205.601(a) 205.601(i)	TF	Y	Sunset date: 05 09 18. TR sent to LS 03 04 16. Response due ~ May 3 (date flexible) as this is not currently under review by LS. TR found sufficient 04 05 16	04 05 16	TBD
Research Priorities (RP)	All	NA	RPs due to MS Aug 2016	Feb 16, Apr 5	Fall 2016
Organic Poultry task force	TF/AB/AS/ HB		Discuss formation of Task Force	NA	NA

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

Agenda

- Approve notes from April 18, 2016
- Spring 2016 meeting recap
- Research Priorities Discussion (TF, JR)
- Organic poultry working group
- Ivermectin petition - Removal
- Adjourn

Discussion

- **Notes from the April 18, 2016** approved with no changes
- **Organic Livestock and Poultry Practices (OLPP)** proposed rule**.** The group discussed recent developments with the proposed rule.
- **Spring 2016 meeting recap.** New members discussed their initial experiences, thoughts and challenges about the spring NOSB. They indicated the biggest challenges are the amount of information they receive, and the need to develop more historical and background knowledge. Overall the experience was a positive one.

- **Research priorities discussion (TF, JR).** The lead circulated a compilation of past research priorities from 2012 to present. The members discussed and ranked some of the previous proposals and suggested topics for future projects. Some of the topics were very broadly defined, and the group will work to refine some of these. The LS will discuss this in June, and have a document ready for the MS on or before the July 8 deadline. One member suggested a need for research on parasiticides, especially in poultry.
- **Organic poultry working group (AS).** Members discussed the need for a working group. The goal would be to review the current state of methionine use on a global level, including a review of alternative practices. The task force could also be tasked with recommending research priorities for methionine alternatives, animal welfare or behavior, management practices, and poultry breeding/genetics. This work would help to aid the LS in developing a targeted list of research priorities for the industry. AS will revise the document based on the discussion, add outcomes and expectations for the NOSB, and recirculate the updated version. The document will be finalized prior to May 31 for submission to the program.
- **Ivermectin petition.** The members discussed the process for a NOSB member to submit a petition for removal. Anyone can submit a petition, however NOSB does not have a specific procedure to recommend removals without a petition, although could request to do this as a work agenda item. Members will consider developing a petition as per the new NOP guidance.
- **The meeting was adjourned.**

Previous LS Notes

Future Call Schedule (1st and 3rd Tuesdays 3:00 ET)

April 18, 2016
    Public comment review
    Sulfur petition sufficiency (AB)
May 3, 2016 - cancelled
May 17, 2016
    Research Priorities Discussion (TF, JR)
June 7, 2016
    Acid Activated Bentonite (AS) - discuss proposal
    Aluminum Sulfate (AS) - discuss proposal
    Sodium Bisulfate (AS) - discuss proposal
    Clarification of term “emergency treatment” in relation to use of parasiticides - discuss
June 21, 2016
    Research Priorities Discussion (TF, JR) discuss/vote
    Acid Activated Bentonite (AS) - discuss proposal/vote
    Aluminum Sulfate (AS) - discuss proposal/vote
    Sodium Bisulfate (AS) - discuss proposal/vote
July 5, 2016
July 19, 2016
August 2, 2016
August 16, 2016
September 6, 2016
September 20, 2016
October 4, 2016
October 18, 2016
November 1, 2016

November 15, 2016
December 6, 2016
December 20, 2016

Fall 2016 Milestones	Target dates (tentative)
NOP - Complete fall 2016 NOSB meeting tentative agenda	Sept 8, 2016
NOSB - Fall 2016 proposals due to NOP	Sept 14, 2016
NOP - Post proposals, Publish FRN, Open public comment	June/TBD
Discuss work agendas on ES call	Oct 14, 2016
Public comment closes	Oct 26, 2016
NOP - Send compiled public comments to NOSB	Nov 2, 2016
Public comment webinars	Nov 3, 2016
Work agendas finalized on ES call (last call before fall meeting)	Nov 4, 2016
Fall 2016 NOSB meeting - St Louis, MO	Nov 16-18, 2016

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National Organic Standards Board (NOSB)
Livestock/Aquaculture Subcommittee (LS) Meeting Notes
Tuesday, June 7, 2016 3:00pm ET

Attending: Ashley Swaffar (AS), Chair; Francis Thicke (FT), Vice Chair; Harriet Behar (HB); Tracy Favre, (TF); A-dae Briones (AB); Jesse Buie (JB)
Absent: Dan Seitz (DS); Jean Richardson (JR)
Staff: Michelle Arsenault (MA); Devon Pattillo (DP)

Work Agenda

Petitioned Materials						
Substance	**Nat'l List §**	**Contact**	**TR requested**	**Notes**	**Scheduled, Discussed, Voted**	**Meeting**
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Acid-Activated Bentonite	205.603	AS	2016 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. TR in development 11 17 15. TR sent to LS 03 03 16. Suff due 05 03	Jun 7, Jun 21	Proposal fall 2016

				16. TR found suff 03 15 16 Two related petitions pending for treatment of poultry litter: **sodium bisulfate** and **aluminum sulfate**. TAP for Kaolin Clay and Bentonite 1995		
Sulfur	205.603	AB		Petition sent to HS 03 09 16. Response/request for TR due 05 09 16. Petition was found suff 04 18 16. TR request sent to NOP 04 18 16. Expected late summer 2016	May 17	TBD
Glycolic Acid, 2016	205.603			Petition sent to LS 06 06 15. Response/request for TR due 08 08 16.		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
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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
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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	NA	Proposal TBD

				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.		

Other projects					
Project	**Contact**	**TR Reqst?**	**Notes**	**Discussed, Voted**	**Meeting**
Peracetic acid 205.601(a) 205.601(i)	TF	Y	Sunset date: 05 09 18. TR sent to LS 03 04 16. Response due ~ May 3 (date flexible) as this is not currently under review by LS. TR found sufficient 04 05 16	04 05 16	TBD
Research Priorities (RP)	All	NA	RPs due to MS Aug 2016	Feb 16, Apr 5, Jun 21	Fall 2016
Organic Poultry task force	TF/AB/AS/ HB		Discuss formation of Task Force	NA	NA

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

2019 Sunsets (TR requests) Summary: Spr 2017 Review: Fall 2017					
Substance	**Con-tact**	**TR request?**	**Notes**	**Scheduled, Discussed**	**Meeting**
Calcium hypochlorite 205.603(a)	AS/FT			Jun 21	
Chlorhexidine 205.603(a)	HB			Jun 21	
Chlorine dioxide 205.603(a)	AS			Jun 21	
Glucose 205.603(a)	TF			Jun 21	
Oxytocin 205.603(a)	TF			Jun 21	
Sodium hypochlorite	AS			Jun 21	
Tolazoline 205.603(a)	TF			Jun 21	
Copper sulfate 205.603(b)	JB			Jun 21	
Lidocaine 205.603(b)	JR			Jun 21	

Procaine 205.603(b)	JR			Jun 21	

Agenda

- Approve notes from May 17, 2016
- Acid activated bentonite (AS) - discuss proposal
- Aluminum sulfate (AS) - discuss proposal
- Sodium bisulfate (AS) - discuss proposal
- Work agenda discussion
- New TRs/Assign leads on materials
- Adjourn

Discussion

- **Notes from the** May 17, 2016 approved with no changes
- **Litter amendments: Acid activated bentonite, aluminum sulfate, sodium bisulfate (AS).** The lead summarized the uses for these materials and the group discussed the proposals for all three. Aluminum sulfate - also petitioned for use in crops. A member described the chemistry involved with the application of this material to soil, and the LS will include questions in the proposal about alternatives and management practices. The LS will revisit these materials and vote at a later date.
- **Work agenda (All)**. Members discussed a potential work agenda item regarding clarification of the term "emergency treatment" in relation to the use of parasiticides. The Subcommittee supports the addition of this project and will seek approval from the Executive team on the June 10 call. The group also discussed working on the topic of antibiotic use in day-old chicks. Members and the NOP discussed the goal for this project and the language in OFPA about sourcing poultry. The LS is waiting for additional input from NOP about working on this topic considering the OFPA language.
- Members volunteered to lead the reviews for the 2019 sunset materials (see table above)
- **The meeting was adjourned.**

Previous LS Notes

Future Call Schedule (1st and 3rd Tuesdays 3:00 ET)

May 17, 2016

Research Priorities Discussion (TF, JR)

June 7, 2016

Acid Activated Bentonite (AS) - discuss proposal
Aluminum Sulfate (AS) - discuss proposal
Sodium Bisulfate (AS) - discuss proposal
Clarification of term "emergency treatment" in relation to use of parasiticides - discuss

June 21, 2016

Assign lead to Glycolic acid - petitioned
Research Priorities Discussion (TF, JR) discuss/vote
Acid Activated Bentonite (AS) - discuss proposal/vote
Aluminum Sulfate (AS) - discuss proposal/vote
Sodium Bisulfate (AS) - discuss proposal/vote
2019 sunsets - TR determinations

July 5, 2016

July 19, 2016

August 2, 2016
August 16, 2016
September 6, 2016
September 20, 2016
October 4, 2016
October 18, 2016
November 1, 2016
November 15, 2016
December 6, 2016
December 20, 2016

Fall 2016 Milestones	Target dates (tentative)
NOP - Complete fall 2016 NOSB meeting tentative agenda	Sept 8, 2016
NOSB - Fall 2016 proposals due to NOP	Sept 14, 2016
NOP - Post proposals, Publish FRN, Open public comment	June/TBD
Discuss work agendas on ES call	Oct 14, 2016
Public comment closes	Oct 26, 2016
NOP - Send compiled public comments to NOSB	Nov 2, 2016
Public comment webinar	Nov 3, 2016
Work agendas finalized on ES call (last call before fall meeting)	Nov 4, 2016
Fall 2016 NOSB meeting - St Louis, MO	Nov 16-18, 2016

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 21, 2016 3:00 pm ET

Attending: Ashley Swaffar (AS), Chair; Francis Thicke (FT), Vice Chair; Harriet Behar (HB); Tracy Favre, (TF); A-dae Briones (AB); Dan Seitz (DS); Jean Richardson (JR)
Absent: Jesse Buie (JB)
Staff: Michelle Arsenault (MA); Devon Pattillo (DP)

Work Agenda

Petitioned Materials						
Substance	**Nat'l List §**	**Contact**	**TR requested**	**Notes**	**Scheduled, Discussed, Voted**	**Meeting**
Aluminum Sulfate	205.603	AS	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. Waiting for TR for Acid-Activated Bentonite TR rcvd 03 03 16.	Jun 7, Jun 21	Proposal fall 2016
Sodium Bisulfate Petition Addendum	205.603	AS	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. Waiting for TR for Acid-Activated Bentonite. TR rcvd 03 03 16.	Jun 7, Jun 21	Proposal fall 2016
Acid-Activated Bentonite	205.603	AS	2016 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. TR in development 11 17 15. TR sent	Jun 7, Jun 21	Proposal fall 2016

				to LS 03 03 16. Suff due 05 03 16. TR found suff 03 15 16 Two related petitions pending for treatment of poultry litter: **sodium bisulfate** and **aluminum sulfate**. TAP for Kaolin Clay and Bentonite 1995		
Sulfur	205.603	AB		Petition sent to HS 03 09 16. Response/request for TR due 05 09 16. Petition was found suff 04 18 16. TR request sent to NOP 04 18 16. Expected late summer 2016	May 17,	TBD
Glycolic Acid, 2016	205.603	FT		Petition sent to LS 06 06 15. Response/request for TR due 08 08 16.	Jul 19	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) 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

Other projects					
Project	**Contact**	**TR Reqst?**	**Notes**	**Discussed, Voted**	**Meeting**
Peracetic acid 205.601(a) 205.601(i)	TF	Y	Sunset date: 05 09 18. TR sent to LS 03 04 16. Response due ~05 03 (date flexible) as this is not currently under review by LS. TR found sufficient 04 05 16	04 05 16	TBD
Research Priorities (RP)	All	NA	RPs due to MS Aug 2016	Feb 16, Apr 5, Jun 21	Fall 2016
Organic Poultry task force	TF/AB/AS/ HB		Discuss formation of Task Force	NA	NA

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

2019 Sunsets (TR requests) Summary: Spr 2017 Review: Fall 2017					
Substance	**Con-tact**	**TR request?**	**Notes**	**Scheduled, Discussed**	**Meeting**
Calcium hypochlorite 205.603(a)	AS/FT	N		Jun 21	
Chlorhexidine 205.603(a)	HB	N		Jun 21	
Chlorine dioxide 205.603(a)	AS	N		Jun 21	
Glucose 205.603(a)	TF	N		Jun 21	
Oxytocin 205.603(a)	TF	N		Jun 21	
Sodium hypochlorite	AS	N		Jun 21	
Tolazoline 205.603(a)	TF	N		Jun 21	
Copper sulfate 205.603(b)	JB	N		Jun 21	
Lidocaine 205.603(b)	JR	N		Jun 21	
Procaine 205.603(b)	JR	N		Jun 21	

Agenda

- Approve notes from June 7, 2016
- Assign lead to glycolic acid (petition)

- Research Priorities discussion (TF, JR) - discuss/vote
- Acid activated bentonite (AS) - discuss proposal/vote
- Aluminum Sulfate (AS) - discuss proposal/vote
  Sodium Bisulfate (AS) - discuss proposal/vote
- 2019 sunsets - TR determinations
- Adjourn

Discussion

- **Notes from the June 7** were approved with a clarification to the section on litter amendments.
- **Glycolic acid - petitioned.** FT volunteered to lead this review and will provide the petition sufficiency on the July 19 call.
- **Research Priorities Discussion (TF, JR).** The group discussed the list and the need to shorten it to increase its usefulness for the Organic Working Group and distribution to the research community. The group prioritized three topics and will forward the final list to the Materials Subcommittee. The three topics are whole farms system research, prevention and management of parasites, and general herd and flock health.
- **Acid activated bentonite (AS), aluminum sulfate (AS), sodium bisulfate (AS).** The group discussed the three proposals for litter amendments with particular regard to use for broilers, alternative practices, and the potential benefits of pH and bacteria control. The Subcommittee proceeded to votes.

  Motion to classify acid activated bentonite as petitioned as synthetic
  Motion by: AS
  Seconded by: TF
  Additional discussion: none
  Yes: 7 No: 0 Abstain: 0 Absent: 1 Recuse: 0

  Motion to add acid activated bentonite as petitioned at §205.603
  Motion by: AS
  Seconded by: TF
  Additional discussion: none
  Yes: 0 No: 7 Abstain: 0 Absent: 1 Recuse: 0

  Motion to classify aluminum sulfate as petitioned as synthetic
  Motion by: AS
  Seconded by: HB
  Additional discussion: none
  Yes: 7 No: 0 Abstain: 0 Absent: 1 Recuse: 0

  Motion to add aluminum sulfate as petitioned) at §205.603
  Motion by: AS
  Seconded by: JR
  Additional discussion: none
  Yes: 0 No: 7 Abstain: 0 Absent: 1 Recuse: 0

  Motion to classify sodium bisulfate as petitioned as synthetic:
  Motion by: AS
  Seconded by: HB

Additional discussion: none
Yes: 7 No: 0 Abstain: 0 Absent: 1 Recuse: 0

Motion to add sodium bisulfate as petitioned at §205.603
Motion by: AS
Seconded by: TF
Additional discussion: none
Yes: 0 No: 7 Abstain: 0 Absent: 1 Recuse: 0

- **2019 sunsets - TR determinations.** The group discussed the need for TRs for the 2019 sunset materials and determined that none were needed.
- **Other projects.** The LS discussed topics under consideration for the work agenda related to poultry production practices. Further work may be postponed on these topics in light of current rulemaking activity.
- The LS will cancel the July 5 call.
- **The meeting was adjourned.**

Previous LS Notes

Future Call Schedule (1st and 3rd Tuesdays 3:00 ET)

June 7, 2016
Acid Activated Bentonite (AS) - discuss proposal
Aluminum Sulfate (AS) - discuss proposal
Sodium Bisulfate (AS) - discuss proposal
Clarification of term "emergency treatment" in relation to use of parasiticides - discuss

June 21, 2016
Assign lead to Glycolic acid - petitioned
Research Priorities Discussion (TF, JR) discuss/approve
Acid Activated Bentonite (AS) - discuss proposal/vote
Aluminum Sulfate (AS) - discuss proposal/vote
Sodium Bisulfate (AS) - discuss proposal/vote
2019 sunsets - TR determinations

July 5, 2016 - cancelled

July 19, 2016
Glycolic acid (FT). Petition sufficiency

August 2, 2016
August 16, 2016
September 6, 2016
September 20, 2016
October 4, 2016
October 18, 2016
November 1, 2016
November 15, 2016
December 6, 2016
December 20, 2016

Fall 2016 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	June/TBD
NOP - Complete fall 2016 NOSB meeting tentative agenda	Sept 8, 2016
NOSB - Fall 2016 proposals due to NOP	Sept 14, 2016
NOP - Post proposals	On or before Sept 27, 2016
Discuss work agendas on ES call	Oct 14, 2016
Public comment closes	Oct 26, 2016
NOP - Send compiled public comments to NOSB	Nov 2, 2016
Public comment webinar	Nov 3, 2016
Work agendas finalized on ES call (last call before fall meeting)	Nov 4, 2016
Fall 2016 NOSB meeting - St Louis, MO	Nov 16-18, 2016

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 19, 2016 3:00 pm ET

Attending: Ashley Swaffar (AS), Chair; Francis Thicke (FT), Vice Chair; Harriet Behar (HB); Tracy Favre, (TF); Dan Seitz (DS); Jean Richardson (JR); Jesse Buie (JB); A-dae Briones (AB)
Absent: none
Staff: Michelle Arsenault (MA); Devon Pattillo (DP)

Work Agenda

Petitioned Materials						
Substance	**Nat'l List §**	**Contact**	**TR requested**	**Notes**	**Scheduled, Discussed, Voted**	**Meeting**
Aluminum Sulfate	205.603	AS	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. Waiting for TR for Acid-Activated Bentonite TR rcvd 03 03 16.	Jun 7, Jun 21	Proposal fall 2016
Sodium Bisulfate Petition Addendum	205.603	AS	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. Waiting for TR for Acid-Activated Bentonite. TR rcvd 03 03 16.	Jun 7, Jun 21	Proposal fall 2016
Acid-Activated Bentonite	205.603	AS	2016 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. TR in development 11 17 15. TR sent	Jun 7, Jun 21	Proposal fall 2016

				to LS 03 03 16. Suff due 05 03 16. TR found suff 03 15 16 Two related petitions pending for treatment of poultry litter: **sodium bisulfate** and **aluminum sulfate**. TAP for Kaolin Clay and Bentonite 1995		
Sulfur	205.603	AB		Petition sent to HS 03 09 16. Response/request for TR due 05 09 16. Petition was found suff 04 18 16. TR request sent to NOP 04 18 16. Expected late summer 2016	May 17,	TBD
Glycolic Acid, 2016	205.603	FT	Y	Petition sent to LS 06 06 15. Response/request for TR due 08 08 16. TR requested 07 19 16.	Jul 19	TBD
Ivermectin - Removal	205.603	JR		Petition to remove sent to LS 06 29 16. Suff due 08 30 16	Jul 19	Fall 2017
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	NA	Proposal TBD

				found sufficient 06 18 13 and 07 02 13. TR deemed unnecessary.		
Aquaculture-Lignin sulfonate (chelating agent 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	N 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	NA	Proposal TBD

				06 25 13. Suff due 08 27 13. TR found sufficient 07 16 13. Fall 2013 meeting cancelled.		

Other projects					
Project	**Contact**	**TR Reqst?**	**Notes**	**Discussed, Voted**	**Meeting**
Peracetic acid 205.601(a) 205.601(i)	TF	Y	Sunset date: 05 09 18. TR sent to LS 03 04 16. Response due ~05 03 as this is not currently under review by LS. TR found sufficient 04 05 16	04 05 16	TBD
Research Priorities (RP)	All	NA	RPs due to MS Aug 2016	Feb 16, Apr 5, Jun 21	Fall 2016
Defining emergency treatment for parasiticides.			Approved to addition to work agenda 07 15 16	Aug 2	
Organic Poultry task force	TF/AB/AS/ HB		Discuss formation of Task Force	NA	NA

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

2019 Sunsets (TR requests) Summary: Spr 2017 Review: Fall 2017					
Substance	**Con-tact**	**TR request?**	**Notes**	**Scheduled, Discussed**	**Meeting**
Calcium hypochlorite 205.603(a)	AS/FT	N		Jun 21	
Chlorhexidine 205.603(a)	HB	N		Jun 21	
Chlorine dioxide 205.603(a)	AS	N		Jun 21	
Glucose 205.603(a)	TF	N		Jun 21	
Oxytocin 205.603(a)	TF	N		Jun 21	
Sodium hypochlorite	AS	N		Jun 21	
Tolazoline 205.603(a)	TF	N		Jun 21	
Copper sulfate 205.603(b)	JB	N		Jun 21	
Lidocaine 205.603(b)	JR	N		Jun 21	
Procaine 205.603(b)	JR	N		Jun 21	

Agenda

- Approve notes from June 21, 2016
- Glycolic acid (FT). Petition sufficiency
- Ivermectin - Discuss petition
- FY 2017 Operating plan suggestions
- Adjourn

Discussion

- **Notes from the June 21** were approved with no changes.
- **Glycolic acid (FT). Petition sufficiency.** The lead author summarized the material and noted that it is a very simple molecule and is being petitioned for use as the active ingredient in teat dips. The petition was found sufficient, and the LS will request a TR. The LS Chair will notify the program.
- **Ivermectin removal - petitioned (JR).** The group discussed the petition to remove ivermectin which was sent to the LS on June 29. The LS found the petition sufficient and determined there was no need for a new TR. The Chair will notify the NOP of sufficiency. The LS then discussed and voted on a proposal to remove ivermectin developed by the leads which incorporated additional feedback from the Subcommittee members.

  Motion to remove ivermectin (CAS # 70288-86-7) as petitioned from §205.603
  Motion by: JR
  Seconded by: HB
  Additional discussion: none
  Yes: 8 No: 0 Abstain: 0 Absent: 0 Recuse: 0

- **FY 2017 NOP Operating Plan suggestions** - Deferred to next call as the list is not yet available.
- **Defining emergency treatment for parasiticides.** The NOP approved the addition of this project to the LS work agenda.
- The LS cancelled the August 16 call
- **The meeting was adjourned.**

Previous LS Notes

Future Call Schedule (1st and 3rd Tuesdays 3:00 ET)

June 21, 2016
- Assign lead to Glycolic acid - petitioned
- Research Priorities Discussion (TF, JR) discuss/approve
- Acid Activated Bentonite (AS) - discuss proposal/vote
- Aluminum Sulfate (AS) - discuss proposal/vote
- Sodium Bisulfate (AS) - discuss proposal/vote
- 2019 sunsets - TR determinations

July 5, 2016 - cancelled

July 19, 2016
- Glycolic acid (FT). Petition sufficiency
- Ivermectin (JR). Discuss petition

August 2, 2016
- Defining emergency treatment for parasiticides (HB)
- Animal Welfare Standards update (NOP)

2017 Operating plan suggestions

August 16, 2016 - cancelled
September 6, 2016
September 20, 2016
October 4, 2016
October 18, 2016
November 1, 2016
November 15, 2016
December 6, 2016
December 20, 2016

Fall 2016 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	June/TBD
NOP - Complete fall 2016 NOSB meeting tentative agenda	Sept 8, 2016
NOSB - Fall 2016 proposals due to NOP	Sept 14, 2016
NOP - Post proposals	On or before Sept 27, 2016
Discuss work agendas on ES call	Oct 14, 2016
Public comment closes	Oct 26, 2016
NOP - Send compiled public comments to NOSB	Nov 2, 2016
Public comment webinar	Nov 3, 2016
Work agendas finalized on ES call (last call before fall meeting)	Nov 4, 2016
Fall 2016 NOSB meeting - St Louis, MO	Nov 16-18, 2016