

UNITED STATES DEPARTMENT OF AGRICULTURE

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NATIONAL ADVISORY COMMITTEE ON
MEAT AND POULTRY INSPECTION

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MEETING

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TUESDAY
MARCH 29, 2016

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The Advisory Committee met in the Auditorium, 355 E Street, S.W., Washington, D.C., at 8:45 a.m., Keith Payne, Moderator, presiding.

MEMBERS PRESENT:

BETSY BOOREN, North American Meat Institute
KURT BRANDT, United Food and Commercial Workers
International Union
MICHAEL CRUPAIN, Consumer Reports
PATRICIA CURTIS, Auburn University
SHERIKA HARVEY, Mississippi Department of
Agriculture
SHERRI JENKINS, JBS, USA, LLC
ALICE JOHNSON, Butterball, LLC
JOHN MARCY, University of Arkansas
KRZYSZTOF MAZURCZAK, Illinois Department of
Agriculture
RANDALL PHEBUS, Kansas State University
TANYA ROBERTS, Center for Foodborne Illness
Research and Prevention
MICHAEL RYBOLT, Hillshire Brands Company
MANPREET SINGH, Purdue University

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EX OFFICIO MEMBERS PRESENT:

MARGUERITE PAPPAIOANOU, Centers for Disease
Control and Prevention
STAN PAINTER, National Joint Council of Food
Inspection Locals

ALSO PRESENT:

PHILIP DERFLER, Deputy Administrator, Office of
the Administrator, Food Safety Service
KEITH PAYNE, Deputy Director, Outreach and
Partnership Division, Office of Outreach,
Employee Education and Training, Food
Safety and Inspection Service, Moderator
NATASHA WILLIAMS, Designated Federal Official

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1 P-R-O-C-E-E-D-I-N-G-S

2 (8:44 a.m.)

3 MR. PAYNE: Good morning everyone. My
4 name is Keith Payne, I'm with the Outreach and
5 Partnership Division within the Food Safety and
6 Inspection Services Office of Outreach, Employee
7 Education and Training.

8 I'll be the moderator for this National
9 Advisory Committee on Meat and Poultry Inspection
10 Public Meeting today and tomorrow.

11 What I'd like to do first is turn over
12 the meeting to Deputy Administrator of the Food
13 Safety and Inspection Services, Mr. Philip
14 Derfler, who will give the formal welcome and
15 opening remarks. So with that said, I'll turn it
16 over to Mr. Derfler.

17 MR. DERFLER: Hi. Good morning
18 everybody and welcome to this meeting, the National
19 Advisory Committee on Meat and Poultry Inspection.

20 Al Almanza, Deputy Undersecretary and
21 Acting Administrator asked me to convey his
22 apologies for not being able to be here. He really

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1 wishes he could be here to welcome you in person,
2 but his travel schedule didn't allow it.

3 On his behalf, I wanted to say that
4 we're really looking forward to getting your advice
5 and recommendations on the two important topics
6 that we're going to be presenting to you today.

7 But before we do that, we want to review
8 the progress that we've made on recommendations
9 that we've gotten from this Committee over the
10 years.

11 I know at various times over the years
12 there's been members of the Committee who felt that
13 the issues that we were presenting to the Committee
14 were not really that important to the Agency. I
15 hope that what you're going to hear in the follow-up
16 presentations will put those concerns to rest.
17 The work of this Committee is really important to
18 FSIS.

19 This Committee has been called upon
20 since 2008 to address some of the most important
21 issues that FSIS was facing at the time. And quite
22 frankly, continues to face each one of them today.

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1 The advice that we receive from this
2 Advisory Committee has played a pivotal role in
3 getting the Agency to the point where it is now.

4 So what I want to do is I want to briefly
5 describe each of the issues that you're going to
6 hear about and tell you a little about why it's
7 important. One of the most important issues we're
8 going to discuss today is International
9 Equivalence.

10 In fact, Mr. Almanza recently testified
11 in front of Congress and he was asked, what is the
12 most important issue that the Agency is dealing
13 with. And what he said was that the need, the most
14 important issue was the need to ensure that
15 countries, foreign countries that had achieved
16 equivalence, maintain equivalence.

17 And today you're going to hear about
18 what we've been lately, from Jane Doherty, who is
19 the head of our office of International
20 Coordination.

21 After that you're going to hear from the
22 Economic Research Service. They were here at the

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1 last meeting and they talked about their cost
2 calculation model. And today Dr. Sandra Hoffman
3 will talk to you about what she and the ERS have
4 done since they heard from you last time.

5 As you know, the National Residue
6 Program has made significant changes after
7 consulting with this Committee. Today Rita
8 Kishore, at the Office of Public Health Science,
9 will talk to you about recent developments in the
10 Residue Program.

11 Todd Reed, who's going to talk about
12 releasing specific types of data.

13 When we came to this Committee, one of
14 the main recommendations was that we go to the
15 National Academy of Sciences for recommendations
16 about how we go about releasing specific data. We
17 did that.

18 The input that we got from them was very
19 important, and today you're going to hear how we're
20 carrying through on the basis of the information
21 that we got from them.

22 There's two other issues that we're

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1 going to talk about that are both very important
2 to us. One is the safe handling label and changes
3 that we should be making in the safe handling label.
4 And Chris Bernstein is going to talk about that.

5 We're also going to talk about public
6 health regulations and how we are using them.
7 We've talked to this Committee about them.

8 There's been some significant advances
9 as of late, in our use of the public health
10 regulations. And you're going to hear about that
11 today from Chris Alvares.

12 Captain Kis Robertson Hale is going to
13 give you a presentation about chicken livers and
14 about the role that they're playing in spreading
15 Salmonella and Campylobacter.

16 This is not an issue in which we're
17 going to seek your recommendations, but it's an
18 emerging issue that we think is important enough
19 that we wanted to bring it to your attention and
20 give you information about this.

21 That will bring us to the two main
22 issues that we're going to make presentations to

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1 you today.

2 First Kristina Barlow will talk about
3 FSIS's best practice guidance for controlling
4 *Listeria monocytogenes* in retail delicatessens.
5 And how this guidance is currently being used by
6 retail delis.

7 This issue is very important to us. In
8 2003 FSIS put out a final rule on *Listeria*
9 *monocytogenes* in post-lethality exposed products.

10 Since we did that, at that time deli
11 meats was a major source of *Listeria monocytogenes*.
12 Since that time, the product emerging from plant,
13 deli meats emerging from plants, has stopped being
14 a problem.

15 We recently did a risk assessment that
16 showed that 80 percent of the illnesses, from
17 *Listeria monocytogenes* involving deli meats, were
18 deli meats that were sliced at retail. Which
19 causes us to be particularly concerned about what's
20 going on at retail.

21 And so therefore we're seeking your
22 advice on how we should proceed with respect to that

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1 issue. And Ms. Barlow will make a presentation on
2 it.

3 And then finally, Mark Wheeler is going
4 to talk about products that are not ready-to-eat,
5 but that appear to be ready-to-eat. Meat and
6 poultry products that have these characteristics.

7 The products have been a problem for us
8 for 18 years. And we're now considering, what new
9 direction we should strike out for. Whether the
10 actions that we've been taking have been
11 appropriate or not. And so we'll be seeking your
12 advice on that.

13 So obviously we have a very full agenda
14 today, so I'm going to stop. I just wanted to thank
15 you all for agreeing to participate in the
16 Committee.

17 We know your time is really valuable.
18 We know you all have other lives that are really,
19 really significant.

20 And we really appreciate your
21 willingness to take out time and spend it with us
22 and help us protect the meat and poultry supply in

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1 the public health. So thank you very much.

2 MR. PAYNE: Thank you, Mr. Derfler, for
3 that opening. Now we'll turn over to the charges
4 to the Committee, and the rules of order or
5 housekeeping measures.

6 First of all, we have our staff from the
7 Outreach and Partnership Division here to assist
8 you. A couple of whom, or a few of whom, you're
9 already familiar with.

10 And I'd like to introduce everyone on
11 that staff. We have Ms. Natasha Williams in the
12 back here. Dr. Jane Johnson, Ms. Diane Jones, Ms.
13 Bee Herbert, who is out at the registration desk,
14 Ms. Elaine Height, who is at that desk with her.
15 Dr. Robert Boyle, in the back here. Ms. Darlene
16 Lee, Commander Jeff Tarrant, in the back here. Ms.
17 Kaitlin Keller, Ms. Evelyn Gomez and Ms. Cho, who
18 is in the back here. And we have Daniel Puzo, who
19 is our director, to my right.

20 In particular, I would like to
21 recognize Ms. Natasha Williams, the designated
22 federal officer for this Committee, and Dr. Jane

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1 Johnson, for all their due diligence and
2 exceptional work in pulling things together so we
3 can have this meeting here today and tomorrow.

4 If you have any questions, please feel
5 free to ask them. Any of the folks I've mentioned
6 from our staff, they can assist you.

7 There are restrooms on this floor. The
8 best thing I would suggest, if you don't know where
9 they are, is to ask our staff here for directions
10 to them.

11 There are restaurants, when it comes
12 time for lunch. We do have a listing of eateries
13 in the area. So again, please ask them for
14 assistance.

15 Outside here to the right of our
16 tabletop display, toward the end, you'll see a
17 break area. There's an ATM machine, there's a cold
18 drink vending machine if you need cold drinks as
19 well.

20 Now let's turn to the introduction of
21 the Committee Members, who are seated around the
22 table. And we'll start to my left.

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1 When you introduce yourself for this,
2 please engage the microphone. There's a green
3 button that lights up. Speak into it, state your
4 name and affiliation and then you can turn, hit that
5 green button again to disengage the microphone.

6 So let's start to my left here. Just
7 for the record, starting with Mr. Derfler, around
8 the table here.

9 MR. DERFLER: I'm some guy that passed
10 the rule.

11 MEMBER MARCY: John Marcy, I'm a
12 Professor at the University of Arkansas, poultry
13 processing specialist.

14 MEMBER CURTIS: I'm Pat Curtis at
15 Auburn University.

16 DR. JOHNSON: Alice Johnson,
17 Butterball.

18 MEMBER MAZURCZAK: Krzysztof
19 Mazurczak, Illinois Department of Agriculture,
20 State Inspection Program.

21 MEMBER CRUPAIN: Michael Crupain.
22 Last time I was here I was in consumer reports, now

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1 I'm a medical director at the Dr. Oz Show.

2 MEMBER ROBERTS: I'm Tanya Roberts,
3 Chair of the Board of Directors of the Center of
4 Foodborne Illness Research and Prevention and
5 Consumer Group. But I worked at the ERS USDA on
6 economic cost of foodborne illness, et cetera.

7 MEMBER PHEBUS: I'm Randy Phebus,
8 Professor at the Food Science Institute of Kansas
9 State University.

10 MEMBER JENKINS: Sherri Jenkins with
11 JBS.

12 MEMBER BRANDT: Kurt Brandt. I'm with
13 the United Food and Commercial Workers
14 International Union. We represent about 1.3
15 million workers in meat packing, food processing
16 poultry and retail.

17 MEMBER BOOREN: Betsy Booren, North
18 American Meat Institute.

19 MEMBER SINGH: Manpreet Singh, Purdue
20 University.

21 MEMBER RYBOLT: Michael Rybolt,
22 Hillshire Brands, which is now holding all its

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1 subsidiary in Tyson Foods.

2 MR. PAYNE: Thank you. And we have
3 spaces or spots for Ms. Sherika Harvey from the
4 Mississippi Department of Agriculture and Dr.
5 Dustin Oedekoven from South Dakota.

6 I understand Dr. Oedekoven is on his way
7 here. So hopefully we will see Ms. Harvey as well.

8 Just for some housekeeping measures --
9 Ah, I think we have Ms. Sherika Harvey coming.
10 Great timing. And, Ms. Harvey, for the record, if
11 you want to state your name and affiliation by just
12 pressing the green button on the microphone.

13 MEMBER HARVEY: Good morning. Can
14 everyone hear me?

15 PARTICIPANT: Yes.

16 MEMBER HARVEY: Okay. Sorry for my
17 tardiness. Sherika Harvey, Consumer Safety
18 Inspector at the Mississippi Department of
19 Agriculture and Commerce.

20 MR. PAYNE: Thank you very much.
21 Okay, just for some housekeeping measures. Cells,
22 please check them. Either mute them or turn them

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1 off so we don't have any disruptions during the
2 meeting.

3 And let me circle back to the
4 microphones, this is very important. During the
5 discussion, during our meeting, when you need to
6 speak, please state your name and affiliation.
7 Hit the button on the microphone so the green light
8 is on. And after you ask your question or state
9 your comment, then hit the button again.

10 I know this may sound redundant, but
11 this is very important for the official record.
12 The transcripts.

13 Mr. James Salandro, to my right here,
14 he's with Neal Gross. And this helps him keep
15 track of the dialogue so he doesn't haven't to ask
16 who stated what for the record.

17 So we have an orderly flow of
18 discussion, for members, when you want to make a
19 comment or raise a question, as we did during the
20 last meeting, raise your tent card. And this helps
21 me keep track of the line, the order of questions.
22 And when we will get to you, I'll announce your

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1 name, then you can put your tent card down.

2 Anyone in the public who would like to
3 make a comment, there's a sign-up sheet at the
4 registration desk. Please, if you'd like to make
5 a comment, you can put your name and affiliation
6 down and when we get to the public comment period,
7 we will certainly call upon you in the order.

8 Before I forget, I'd like to introduce
9 an ex officio member of the Committee, Dr.
10 Marguerite Pappaioanou from the U.S. Centers for
11 Disease Control and Prevention. Dr. Pappaioanou
12 is here today. If you'd like to standup or raise
13 your hand? There you go.

14 And then we have, from the association,
15 Mr. Stan Painter. Whose president at the National
16 Joint Council of Food Inspection Locals, Mr.
17 Painter.

18 All right, well thank you very much.
19 That concludes our housekeeping measures and we'll
20 move on now to the next portion of our meeting.
21 These are the Panel Updates.

22 I'd like to introduce Mr. Daniel Puzo.

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1 The Director of the Outreach and Partnership
2 Division who will moderate these panel updates.
3 Mr. Puzo.

4 MR. PUZO: Good morning everyone and
5 welcome. To those of you from out of town, welcome
6 to Washington on this chilly morning.

7 We are going to have a full
8 presentation. This is our third year doing these
9 updates. And don't be alarmed at the number of
10 people up here.

11 We've actually timed this to make sure
12 we get it in. That it fits the schedule. But kept
13 that in mind when we get to the comments and
14 question periods. I might have to hurry us along
15 to stay on time. Which is important.

16 Also, we will take questions after each
17 presenter, rather than waiting till the end of the
18 entire Panel. So we'll get started right away with
19 the International Equivalence Update with Jane
20 Doherty International Coordination Executive.
21 Jane.

22 MS. DOHERTY: Thank you very much and

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1 good morning everybody. It's a pleasure to be back
2 with all of you and to talk to you about our
3 International Equivalence Program here at FSIS.

4 I have the privilege of leading the
5 Office of International Coordination. But I
6 certainly would not take credit for running our
7 International Equivalence Program. This is truly
8 and Agency effort.

9 And several offices are involved.
10 Several offices are working on a daily basis with
11 my team and in the Office of International
12 Coordination.

13 And I could not do this work, the amount
14 of work that is involved in putting the
15 International Equivalence Program that is
16 respected as FSIS is. It takes a great deal of
17 effort in our Agency.

18 So I want to acknowledge and to
19 recognize my colleagues who work with me on a daily
20 basis to make this happen. Assistant
21 Administrator Dan Engeljohn, who leads our Office
22 of Policy and Program Development.

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1 Assistant Administrator Carl Mayes.
2 Who is here from our Audits and Investigation and
3 Enforcement Team.

4 And also Assistant Administrator David
5 Goldman. From our Office of Public Health
6 Sciences. Who together, we work together to
7 ensure that our programs are always science based
8 credible and that we are holding countries to
9 requirements that are equivalent to ours.

10 And as you heard, our Deputy
11 Undersecretary understands the importance of
12 maintaining and continuing to strive that those
13 countries continue to meet standards as we improve
14 our own programs.

15 So when FSIS came to you several years
16 ago, we presented our international program to you
17 for review, there were three areas of concentration
18 that we wanted to focus on.

19 Those are document analysis, making
20 sure that countries have a government
21 infrastructure in place to be able to maintain and
22 to run an equivalence program. And that their

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1 national meat inspection system has the
2 enforcement tools necessary to enforce their rules
3 and regulations.

4 Onsite audits. So that we send our
5 experts over and check what their government has
6 put on paper, but we ensure that for ourselves, we
7 look at their programs and make sure that their
8 criteria that they have described to us, and that
9 they're working on, that they are in fact, we can
10 validate that those programs are in place and what
11 they have told us is in fact true.

12 And then of course our point of entry
13 reinspection. Is very, very important to ensure
14 that product that is sent to this country is in fact
15 tested and verified that they are continuing to
16 meet FSIS rules, regulations and standards.

17 So those concepts and the concept of
18 equivalence is very, very important to our
19 international program.

20 As you know, FSIS is very different from
21 some of our other agencies in the federal
22 government who accept products from other

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1 countries. A country cannot export a meat,
2 poultry or processed egg product to the United
3 States, unless they have an equivalence
4 determination from FSIS.

5 But there were three questions that we
6 came to and asked you about. Was one, should we
7 be looking at changes to our international
8 equivalence program?

9 Two is, the regulatory information and
10 the compliance history from these countries, how
11 does that work into our determinations and our
12 ongoing program and what are we finding at port of
13 entries? Are we finding that some countries have
14 more violations than others, and how should that
15 factor into our international program?

16 And three, how often should we be
17 visiting some of these countries, based on those
18 results of the data that we're able to comply and
19 how do we use that to determine whether a country
20 is continuing to meet those requirements.

21 So those are the three questions that
22 we came to for guidance on. And the

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1 recommendations that you provided to us is that in
2 fact, yes, our three tier approach to equivalence
3 was right.

4 Document review is essential as a
5 primary step. And then FSIS needs to go to these
6 countries and validate in fact what is happening
7 and are these countries doing as they tell us that
8 they are doing.

9 And three, that we're checking at the
10 ports and ensuring that those products that are
11 coming in are meeting our levels of protection.

12 So you were very clear to us that the
13 structure and the road that we were on was the
14 correct one.

15 You also directed our Agency to use its
16 resources wisely and to look at the relative risks
17 and the historical compliance with these
18 countries.

19 And every country system is different.
20 They don't all run their programs the way we do.
21 And under the concept of equivalence, they don't
22 have to. But they certainly have an obligations

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1 document in how they're meeting our levels of
2 protection.

3 They may do it differently, but they
4 have fundamental requirements to meet our levels
5 of protection. And so what we need to do is figure
6 out, are those countries methods acceptable to meet
7 our standards.

8 And then finally you also recognized
9 that we needed to be standardized across the board.
10 We could not have one set of rules from one country
11 and another, depending on their infrastructure.
12 We had to standardize that process.

13 And so we've been spending a lot of
14 extra time on our questionnaire. To ensure that
15 across the board, countries are meeting and working
16 on their infrastructure and reporting to us, in
17 what we call the self-reporting tool. Which is a
18 questionnaire that countries have to fill out to
19 begin an equivalence determination and to maintain
20 an equivalence determination.

21 So it's a questionnaire where we ask a
22 lot of questions about their rules and regulations.

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1 As we change our rules and regulations, we also
2 require those countries to explain what they're
3 doing to continue to meet those standards.

4 We don't want to have an equivalence
5 determination and someone, it's not a stagnant
6 process by any means. Once you have an equivalence
7 determination, you're just getting started with
8 FSIS.

9 It is a working relationship that we
10 have with these countries. And as our standards
11 continue to become more protective, so must they.
12 And they must explain to us how they are doing that.

13 So we continue to implement your
14 requirements every day. We are working to improve
15 our self-reporting tool. We continue to do out
16 systems audits. And we're continuing to do our
17 port of entry reinspection procedures on a daily
18 basis.

19 We have developed a performance based
20 approach to address the risks and the historical
21 compliance. And we have developed our
22 self-reporting tool. And all of this was

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1 published in our Federal Register in 2013.

2 But wanted to give you an update today
3 on what have we been doing since last year's
4 presentation. So we have released our
5 International Equivalence Directive. We are
6 making some fine-tuning changes to it.

7 But those are the rules and regulations
8 that we follow when we receive a request from a
9 country on what it is that we have to do, as an
10 Agency, to work with that country to determine
11 whether or not their program is equivalent to ours.

12 We have, since last November, we put out
13 an ongoing equivalence directive that explains
14 what the rules and procedures are for FSIS
15 employees, with regards to maintaining an
16 equivalence determination. So what is required of
17 our policy office, what is required of my office,
18 our field operations office and our auditing team.

19 So what are we working on together, as
20 well as our public health sciences office. So what
21 are we doing and how are we working to ensure that
22 these countries continue to meet our standards.

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1 Those are spelled out. The directions
2 for FSIS employees in the ongoing equivalence
3 directive.

4 We've also put out notices with regards
5 to import inspections in our import/export program
6 last November. There were two new directives that
7 came out talking about what our requirements are
8 and what we're looking at from our employees, as
9 far as reinspection of meat, poultry and processed
10 egg products.

11 Those directives are 9900.2 and 9900.5.
12 Those are our label verification of those imported
13 meat requirements as well as our reinspection
14 procedures.

15 So they spell out directly what every
16 employee is responsible for in our Agency and how
17 we're going to manage reinspections.

18 And of course I think most of you are
19 familiar with the fact that we put out our final
20 rule on Siluriformes implementation this year and
21 we are working very, very hard. On March 1st the
22 rule became official and we have started

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1 implementation of that rule.

2 From the Office of International
3 Coordination and working with the other offices
4 here, we are working so that foreign countries
5 understand that there has been a transition to
6 FSIS, for Siluriformes, and what is required in an
7 equivalence program.

8 So spending a lot of time educating
9 other countries on our standards, our levels of
10 protection. And if they are to apply for
11 equivalence, what's going to be expected of them
12 from FSIS.

13 We are also working with our foreign
14 authorities. As we said, we have a self-reporting
15 tool, a questionnaire and this program is, by no
16 means, stagnant.

17 So every year, at least once a year,
18 they have to re-fill out their self-reporting tool
19 questionnaire, talk to us about changes in their
20 government structures, what rules and regulations
21 they've put in place. And then we have to do an
22 evaluation.

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1 And Dan's team does this in our policy
2 office, of evaluating whether that country
3 continues to meet our levels of protection or not.

4 And then this year we've had some
5 problems with avian influenza, as many of you may
6 know. And that means that we didn't have the
7 supply of processed egg products in the United
8 States that we've had in years past.

9 So there's been an interest, from a
10 number of industries, to get product from overseas.
11 But we've had to spend a lot of time educating folks
12 that unless you have an equivalence determination
13 for some of these products, you can't bring those
14 products into the United States.

15 So we've had a number of countries that
16 were not familiar with the jurisdiction issues
17 between FDA, AMS and FSIS. And we've had to spend
18 a lot of time educating countries that this is FSIS
19 and these are the rules and regulations if you're
20 going to send that product into our country.

21 So our enforcement team has been
22 spending a lot of time at the ports, doing

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1 investigations. But we also have an obligation to
2 talk to the countries and educate them on what our
3 rules and requirements are. So spending a lot of
4 time on that.

5 And there have been a lot of issues this
6 year with the explanation of what we require as a
7 government inspector in these facilities.

8 And what we have always said is that an
9 FSIS inspector, what is acceptable to FSIS is that
10 the government have an inspector, a government
11 inspector, at the end of the line in their
12 establishments. Whether you are in Europe or you
13 are in Asia or you are in Canada, we require a
14 government inspector at the end of the line.

15 And so we have had, as I said earlier,
16 countries do things differently. We have had to
17 explain and define what is meant by a government
18 inspector.

19 So we are working on that to clarify
20 that for folks. We have been sending letters to
21 these countries so that they understand what the
22 requirements are, and we are holding them to insure

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1 that they are meeting our requirements as spelled
2 out in the CFR. So those are the things that we
3 are working on currently.

4 In conclusion, our program continues to
5 be very, very strong and respected
6 internationally. We are spending more and more of
7 our time educating other countries on FSIS
8 requirements and why they are based on science, and
9 helping them to raise their levels of protection
10 as well in foreign countries.

11 They may not all have equivalence
12 determinations, but they're striving. They
13 understand that that USDA gold seal, if you will,
14 means a lot. And can help them economically, as
15 well as from a regulatory point of view, to be able
16 to promote their products in the future.

17 Your recommendations have meant, have
18 really been seriously, taken very seriously by our
19 Agency and have been implemented. And I can
20 honestly say are at the heart of our programs.

21 We meet on a weekly basis to ensure that
22 we are insuring that the self-reporting tool is

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1 adhered to. That countries understand that they
2 have to fill out that questionnaire, they have to
3 do it on a regular basis.

4 We look at our audits and our audit
5 reports in insuring that we are being very
6 transparent, but our decisions are silenced based.
7 And we are looking at our port of entry violations
8 on a daily basis.

9 What's coming in from a country, have
10 they had a number of violations, what are we doing
11 about that?

12 And one thing that's been very, very
13 important this year is that that port entry
14 violation issue, if there are a number of
15 violations from a country, we are always in contact
16 with them, if a violation occurs. But they have
17 an opportunity, within a certain period of time,
18 to respond to us with corrective actions.

19 If we feel that those corrective
20 actions are insufficient, we have the opportunity
21 to push further and ask for more information. Or,
22 as what happened in the case last year, we go down

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1 ourselves to a special audit, and our investigators
2 go down and look at the situation to address the
3 issue. So countries are taking these very, very
4 seriously.

5 This past week we've had a problem with
6 one country, that's been in the news, about
7 pesticide residues and using pesticides that are
8 not allowed for use in the United States. And one
9 country, immediately after meetings with FSIS,
10 took action to suspend the use of that pesticide
11 in their country.

12 So international outreach,
13 communication about our programs, is very, very
14 important.

15 So you'll see the Deputy Undersecretary
16 and our office going out. Our technical teams from
17 policy and audits and public health science going
18 out and educating other countries about the levels
19 of protection that we have here in the United
20 States.

21 And we believe that they too had an
22 opportunity to promote food safety, but they need

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1 to work with us on what those levels of protection
2 are.

3 So we're very proud of our program, we
4 thank you for the recommendations that you've made
5 and any suggestions that you have are continuing
6 to improve this program. So thank you.

7 MR. PUZO: I don't know if there's a
8 question here. Tanya Roberts?

9 MEMBER ROBERTS: Yes. Chinese
10 chicken has been in the news a lot. And so I'm
11 wanting to get an update from you and some
12 clarification on, will chicken produced in China
13 be able to be sold in the United States, will it
14 have a label, what about the chicken that's fully
15 processed and it's made largely into chicken
16 nuggets and so it's not really an intact piece of
17 chicken anymore, just what's going on?

18 MS. DOHERTY: That's a good question,
19 Tanya. Thank you.

20 As you will recall, FSIS has determined
21 that processed chicken has already have an
22 equivalence determination from FSIS. So China has

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1 had the ability to send processed product to the
2 United States for the last two years.

3 MEMBER ROBERTS: I thought it had to be
4 of U.S. origin though?

5 MS. DOHERTY: Of U.S. origins, thank
6 you.

7 MEMBER ROBERTS: Okay.

8 MS. DOHERTY: But it has to be from U.S.
9 origin or from another source that has already been
10 approved for slaughter.

11 MEMBER ROBERTS: Okay.

12 MS. DOHERTY: So another country who
13 already has an equivalence determination for
14 slaughter as well.

15 But now we are, we have a second request
16 from China, as you are well aware, for Chinese
17 origin raw chicken to be slaughtered, has an
18 equivalence determination from the United States.

19 We have gone through this process that
20 we just outlined. We have done the questionnaire
21 with them, we have done our onsite audits. And we
22 have made a determination, based on our review and

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1 our audit reports, that we are ready to move forward
2 with a proposed rule for Chinese slaughtered
3 chicken to move forward.

4 That will be coming soon, will be
5 proposed. There will be a public comment period,
6 as always. We will take comments received and look
7 at the scientific rationale for those comments in
8 support.

9 And our final decision on whether or not
10 chicken that is origin from China will be allowed
11 to access the United States will once again, be
12 based on the scientific facts presented to this
13 Agency. So as always, the reason we are credible
14 as an Agency is because our decisions are science
15 based.

16 So the same will happen with China.
17 And we will continue to make sure science is the
18 heart of that decision.

19 MEMBER ROBERTS: Okay.

20 MS. DOHERTY: Thank you.

21 MR. PUZO: Any other questions for
22 Jane? Well thank you.

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1 MS. DOHERTY: Thank you.

2 MR. PUZO: We'll move right along to
3 the Economic Research Services Cost Calculation
4 Model for Foodborne Illness. One of the most
5 interesting ones I've ever seen. And here is our
6 sister colleague, Dr. Sandra Hoffman.

7 DR. HOFFMAN: Thank you for allowing me
8 to be here today. As I think you are aware, the
9 USDA Economic Research Service is a sister agency
10 to FSIS and other agencies within the Department
11 of Agriculture.

12 We are a research agency, we do research
13 on all areas of food and agriculture in the U.S.
14 We have probably three full-time staff equivalents
15 working on food safety I would say. It varies.

16 That's what I do full-time as well as
17 Mike Ollinger. And there are others who do
18 projects on food safety.

19 So one of the projects that has a long
20 history, and Tanya Roberts was really one of the
21 initiators of this history, is working on estimates
22 of the costs of foodborne illnesses in the U.S.

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1 Last year I reported on our most recent
2 iteration of that modeling effort and I'm here to
3 tell you a bit about how, you had some comments on
4 here, to tell you a bit about how we're responding
5 to those.

6 The cost of illness estimates, are
7 available for FSIS to use. They provide a peer
8 reviewed scientifically sound set of estimates of
9 the pre-case cost of foodborne illness that can be
10 used in regulatory analysis. But it is an FSIS
11 decision whether to use those or others or how
12 they're going to proceed with that.

13 So last year we posed a, had a set of
14 six questions. The first five that we, I'm going
15 to talk to you about.

16 The first five of which are really
17 relevant to long run planning. And because of the
18 frequency with which disease incidents estimates
19 arise and because of variability in the economic
20 data that we use in the cost of illness estimates,
21 it seems to make sense to us to do estimates every
22 five years.

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1 It's really not something that can be
2 updated in a sensible way on an annual basis. And
3 we also don't have the staff to do that. But mostly
4 it's simply not sensible to do it.

5 So questions one through five really go
6 to that long run planning process and we will be
7 taking those into account as we move into that phase
8 of our work.

9 But Question 6 was about communication.
10 And since our most recent estimates came out in
11 October of 2014, we're really in a communications
12 mode.

13 And what I want to talk to you about
14 today is the recommendation that we present data,
15 in different ways, to reach different audiences.
16 And we've done quite a bit on that, I think, in the
17 last year.

18 So one of the things that we've done is
19 to reach audience, the scientific users, and
20 audiences that want to use these materials in
21 teaching.

22 And the primary thing, the primary

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1 product that we developed to reach those audiences,
2 was a report that is intended to provide materials
3 that can be used in teaching. Either in the
4 academic setting or more importantly, I think,
5 probably in an extension or a public health
6 setting. And then also for scientific users to
7 have a better understanding of how we developed our
8 estimates.

9 The report does a number of things. It
10 gives a more detailed discussion than we have on
11 our website on how we developed our estimates. It
12 provides comparisons across pathogens and tries to
13 put the relative economic cost of different, of the
14 disease caused by different pathogens, into
15 perspective.

16 And then in addition, for each
17 pathogen, it contains what I like to think of as
18 kind of a folio or pamphlet for that pathogen. And
19 the pieces of that are the disease outcome tree with
20 the probability of different disease outcomes
21 occurring, the number of illnesses we expect, we
22 model to have occurred in those outcomes.

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1 Like for example, the number of cases,
2 let's see, what do I have up here.
3 Cryptosporidium. Of illness cause by
4 Cryptosporidium that end up not seeing, not being
5 attended by a physician or the percent of
6 hospitalized cases that end up dying. And then the
7 costs associated with that.

8 In addition, we have a pie chart that
9 shows the distribution of costs across the
10 different outcomes. And then also text that sets
11 the incidents that describes the type of disease
12 that's caused by that pathogen, the incidents
13 relative to other pathogens and its cost relative
14 to other pathogens.

15 The text in this, like almost all the
16 work in the cost of illness estimates, is really
17 a synthesis. And we draw heavily on materials from
18 CDC, from FDA and from other peer reviewed
19 literature, to develop the text for this.

20 In addition, we did a number of
21 communications efforts to other audiences. For
22 general policy audiences, we used a vehicle that

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1 USDA economic research services developed for this
2 purpose called charts of note.

3 And they are weekly broadcasts to a wide
4 list serve of, and also onto our website, of charts
5 that are drawn from research products that we've
6 produced. Along with text describing them.

7 And they're short and they're intended
8 to get people's attention and just to raise
9 awareness and the educational level about the
10 impact. In this case, the impacts of foodborne
11 illness in the U.S.

12 And so we did five of those over the
13 course of the past year. To reach that audience.

14 In addition, looking to general public
15 health education, we worked with the FSIS Office
16 of Communications to develop consumer education
17 materials that draw on the cost of illness
18 estimates.

19 And then from a more technical
20 perspective, we've also conducted, again, as part
21 of standard economic research service, a process
22 for all of our data products.

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1 We did an internal review of data
2 quality with a focus on factors, such as
3 transparency, accessibility, across a diverse set
4 of software platforms that people may have to deal
5 with and documentation in terms of how well it
6 describes the way the data was developed and the
7 limitations of the data.

8 So we conducted that internal quality
9 review and developed a plan for addressing any
10 short fallings within that.

11 And in the next few months, one of the
12 things we'll be doing to address issues that we
13 found in the data review, is to post our, the
14 estimates are currently posted in Excel
15 spreadsheet form, and we will be posting those in
16 a CSV format so that they're an open access type
17 of format.

18 So that is a summary of what we've done
19 over the past year in terms of communications and
20 I can have questions.

21 MEMBER BOOREN: Thank you. I have a
22 question getting into some aspects with the data

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1 quality aspect.

2 How are the changes, and how are you
3 planning for changes, in public health
4 laboratories?

5 We're hearing more and more the
6 difficulties of doing classic serotyping pathogens
7 coming from human clinical isolates. How are you
8 planning on addressing that as you look at data
9 looking forward to make these estimates?

10 DR. HOFFMAN: Well let me --

11 MEMBER BOOREN: Those changes are
12 occurring --

13 DR. HOFFMAN: Right.

14 MEMBER BOOREN: -- in how that data I
15 used within the government becomes really critical
16 if the data is not accurate.

17 DR. HOFFMAN: Right. Right. So I
18 agree that that's an issue and a concern. We take
19 the work of CDC on incidents estimate as a given.
20 So we're really looking to CDC for those incident
21 estimates.

22 And the laboratory testing capacity

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1 will certainly affect their ability to develop
2 sound incident estimates. So, all right. Yes.

3 MR. PUZO: Thank you, Sandra. All
4 right, next up is the National Residue Program
5 Update with Rita Kishore. Rita?

6 MS. KISHORE: Good morning. So as you
7 know, the National Residue Program is an
8 interagency program that is designed by various
9 U.S. agencies, like CDC, FDA, EPA, AMS and is
10 implemented by FSIS.

11 And the goals of National Residue
12 Program are to provide structured process for
13 identifying and evaluating chemical hazards of
14 concern in food animals.

15 It tests for prevalence of chemical
16 hazards, veterinary drugs, pesticides,
17 environmental contaminants, hormones in meat,
18 poultry and egg products. And identifies the need
19 for a regulatory follow-up when a chemical hazard
20 is found in meat, poultry and egg products.

21 So last year we asked the Committee
22 several questions. We had four main questions

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1 that we proposed. That we asked the Committee.

2 And the questions were, FSIS would like
3 NACMPI to provide a feedback on how FSIS says
4 manages chemical hazards, within the National
5 Residue program.

6 The second question was, does the
7 Committee agree, how FSIS locates samples across
8 the National Residue Program sampling structure?

9 Is FSIS looking at the right proportion
10 of samples across domestic versus inspected
11 generated programs?

12 Is FSIS locating samples across
13 slaughter classes effectively?

14 The third question was, does the
15 Committee agree with FSIS' emphasis on known versus
16 unknown hazards?

17 And the fourth question was, how should
18 FSIS consider chemical categories? Should they
19 consider them equally or rank them relative to each
20 other?

21 So we got the recommendations from you.
22 We have reviewed all those recommendations. As

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1 said by previous speakers, we took them very
2 seriously, the recommendations that you gave us.

3 We thought that these recommendations
4 fit into five main categories. And what we did is
5 we made an action plan for each one of the
6 recommendations. And then what we are providing
7 to you today is what the results of those action
8 plans are.

9 So the first recommendation that NACMPI
10 gave us, that FSIS evaluated the data from the state
11 slaughter plants. Not only just from the federal
12 slaughter plants.

13 And also that we should make sure that
14 small establishments are also sampled, and just not
15 the large establishments that are sampled.

16 So the action plan that we had was that
17 we would increase the collection rate in the state
18 scheduled sampling program.

19 And so the result was, or the actions
20 that we took to do that, was that we briefed the
21 meat and poultry state directors. We have a
22 meeting with them. Or the Agency has a meeting

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1 with them.

2 And our group briefed them and told them
3 the importance of the National Residue Program, why
4 the collection rates should be, why they should
5 collect the samples and how they should, what
6 actions should they take to make this collection
7 of samples higher.

8 And we are pleased to inform you that
9 the sample collection rate has increased 20 percent
10 between 2014 and 2015.

11 So the recommendation too was that the
12 Committee recommended that FSIS develop a strategy
13 or effectively communicate an active mission and
14 data collection to others. That this is beyond
15 what we do.

16 We do publish National Residue Program
17 or what we call as the Blue Book. And then we do
18 publish a Red Book, what we call the results. We
19 publish the violation, the name of the violators.

20 We have our lab matters, but the
21 Committee recommended that we go above and beyond
22 what we already do to communicate National Residue

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1 Program to the stakeholders.

2 So the action plan or the action that
3 FSIS took was that we decided that we would explain
4 what the National Residue Program is to our state
5 MPI meetings and the HACCP meetings that happen
6 every month. And that we also would do an outreach
7 to other stakeholders.

8 So the result was that FSIS discussed
9 the design and structure of the National Residue
10 Program at the state MPI meetings. We explained
11 at the HACCP meetings.

12 We also went to other federal agencies
13 like EPA and CDC where there was a vast audience
14 that are just, that just do the residues but a vast
15 audience of people over there that we explain the
16 National Residue Program to.

17 We went to JIFSAN. They were having
18 some classes there. We told them about the
19 National Residue Program, the structure, what we
20 do in the National Residue Program.

21 And also to some foreign governments.
22 We have given seminars to some foreign or talked

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1 about the National Residue Program to some foreign
2 governments. Some of them are Cong Hoa, Vietnam,
3 Chu Nghia, that we adopted them.

4 And the other thing that we are planning
5 to do, or we have started doing, is we are
6 developing a brochure of describing the National
7 Residue Program for the general public. And we are
8 in the process of gathering the data that we have
9 gotten from other places. And hopefully we'll
10 have this brochure very, very soon.

11 So the third recommendation that the
12 Committee gave us was to review the inspector
13 training and to make sure that there's an adequate
14 and consistent implementation of the NRP.

15 So the action plan was that there is a
16 directive for residues that describes, that tells
17 the inspectors on what samples to take. If they
18 find that there is some kind of pathology that's
19 indicated.

20 And so we decided, and then they did a
21 KIS testing on it. A quick test that's called a
22 KIS test.

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1 So what we did is we reviewed the
2 results of the KIS test and there was questionnaire
3 that was submitted earlier in 2014. We reviewed
4 the results of those questionnaires.

5 The bob veal and dairy cows are two
6 slaughter classes where we have the highest
7 violation rates in the inspector generated
8 program.

9 So we reviewed the results. We found
10 that there are about six pathologies in dairy cows
11 and about four or five pathologies in bob veal that
12 actually are most commonly reported by the
13 inspectors as having a residue violation found and
14 that they get confirmed in the lab.

15 So the results, what happens is that the
16 KIS testing is done in the lab. The tissue, if the
17 result is positive, the tissue is sent to the lab
18 and the lab does a confirmation. And as you know,
19 that many times, when the testing is done, the lab
20 cannot confirm.

21 So we kind of looked at the data to see
22 what gets confirmed the most, what pathology is the

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1 one that gets confirmed the most. So that's what
2 we did.

3 We had four plants that we did the pilot
4 study on. So at this time, we are analyzing the
5 data and, from these four plants, and figuring out
6 if whether hypothesis is correct.

7 And if this is correct, then we will
8 implement it nationwide. And we hope that the
9 number of KIS positives that the lab reports will
10 be higher than what we are getting right now.

11 So the number fourth recommendation
12 that the Committee told us was that not only we
13 should prioritize the compounds that are used in
14 the U.S., but also look at all the compounds that
15 are used by foreign countries that export the
16 product to the U.S. So all that, that included the
17 drugs and the pesticides.

18 So the action plan, what we took from
19 there is that we would do a ranking based ranking
20 for all these compounds. To do so, what we have
21 is about -- the first thing we did is we compiled
22 a list of all the pesticides in the drugs that are

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1 used by various countries and the U.S.

2 So at this point we have compiled a list
3 of about 430 pesticides and about 318 drugs that
4 are used in various countries.

5 We have presented the models. We have
6 got a couple models that we have. We presented
7 them to EPA and FDA and asked for their input into
8 whether they think these models are correct.

9 We have done the ranking based on
10 relative health concern. And we are hoping that
11 very soon we come to a consensus with our various
12 sister agencies and start using these models.

13 And the last recommendation that the
14 Committee gave us was that we use a de minimis level
15 to determine if consumption of chemical present in
16 FSIS regulated products pose a public health risk.
17 So the action plan was that FSIS will determine the
18 de minimis level on chemicals that do not have a
19 tolerance or action levels that EPA or FDA have set.

20 As you know, that EPA and FDA have the
21 mandate to set the tolerances and the action
22 levels. But there are many, many components for

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1 which EPA has not set any levels. And so FSIS has
2 took it upon themselves, that we will calculate the
3 de minimis levels.

4 So the result is that we have published
5 a Federal Register Notice. And it's been
6 published.

7 The comment period will end on March
8 31st. That is, I think, two days from today. And
9 hopefully we will be, at some point, doing our,
10 calculating the de minimis levels. If everything
11 goes on well.

12 So those are the five recommendations
13 that we got from NACMPI. And then our action plans
14 and our results. So any questions?

15 MEMBER HARVEY: The bullet points that
16 you mentioned, that you are considering the data
17 on, did you take into consideration the different
18 regions? Are they in different regions of the
19 country?

20 MS. KISHORE: The --

21 MEMBER HARVEY: The four plants?

22 MS. KISHORE: No. We took the four

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1 highest, the four plants that do the highest, that
2 give the highest violation rates.

3 MEMBER HARVEY: The highest what?

4 MS. KISHORE: Highest violation rates.
5 And they have most, they have the most slaughter.

6 MEMBER HARVEY: Understandable.
7 Thank you.

8 MEMBER PHEBUS: Randy Phebus, Kansas
9 State University. Can you tell us, relative to
10 Jane mentioning the tool used for the equivalency
11 assessment, are these residue monitoring programs
12 and protocols from other countries part of that
13 tool?

14 Can you kind of describe that or explain
15 that?

16 MS. KISHORE: So are you talking about
17 the hazard evaluation we have done or talking about
18 the evaluation that is done by the Agency for the
19 foreign countries?

20 MEMBER PHEBUS: Well I think both.
21 Yes.

22 MS. KISHORE: Okay. So for the

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1 evaluation that we are doing for the chemical
2 hazard models, we did work with our equivalence
3 staff and we got the list of all the compounds that
4 are used in various countries from them.

5 And then we do work with our equivalence
6 staff to evaluate the residue plans, that come from
7 various countries, and we partake in that
8 equivalence process. To make sure that their
9 residue plan provides the same equal protection as
10 the FSIS residue plan does.

11 MEMBER ROBERTS: Tanya Roberts from
12 CFI. So I heard you mention that you publish the
13 names of the violators?

14 MS. KISHORE: Yes.

15 MEMBER ROBERTS: And is that then
16 available on the FSIS website?

17 MS. KISHORE: Yes, it is.

18 MEMBER ROBERTS: And is that done
19 annually or as it becomes available or --

20 MS. KISHORE: As it becomes available.
21 And I think it's weekly. It's every week.

22 MEMBER ROBERTS: Every week.

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1 MS. KISHORE: Every week or every
2 second week. I'm not a hundred percent sure. But
3 it's done as soon as things happen.

4 MEMBER ROBERTS: Thank you.

5 MR. PUZO: Thank you, Rita. Next up,
6 with Establishment Specific Data Release -- yes?
7 Oh, another question?

8 MR. PAINTER: I have a question for her
9 please? Stan Painter with the National Joint
10 Council Food Inspection Locals. My question, I
11 have a lot of questions, but this last one on de
12 minimis.

13 De minimis is a term that's used in
14 negotiations. To say it has impact, but the impact
15 is minimal. Now the law changes, the court
16 changes.

17 So what I'm hearing the Agency say is
18 this. That we're going to have a standard that
19 allows for some whatever. Antibiotics, residue,
20 whatever that's de minimis, but we have no way of
21 testing for that, or do we?

22 And if the court changes and FLRA rules

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1 in a different way of determining what de minimis
2 means, is the Agency going to change its method and
3 determination of de minimis?

4 MS. KISHORE: So for the de minimis
5 levels we do have analytical methods for compounds
6 that we are talking about. If we find something
7 -- so lead is a real example for it.

8 So if they find lead in a product, there
9 is no action level set for lead. There is nobody
10 that's going to go to FDA or EPA to say, hey, set
11 us a tolerance for lead because that's an
12 environment contaminant.

13 So what we're talking about is if we
14 find a value of lead in meat and poultry, we are
15 going to then figure out, what is it hazardous to
16 human health if the level X is found in meat, is
17 it hazardous to human health, by our calculations,
18 based on the amount of meat a person eats, based
19 on the diet the person has. So that is what we are
20 calculating, that's what we are calling de minimis
21 level.

22 MR. PAINTER: Okay. Then if it's

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1 hazardous to health, it's not de minimis?

2 It's kind of like a major amount of
3 surgery. Major is when it's me and minor is when
4 it's someone else.

5 MS. KISHORE: Okay.

6 MR. PAINTER: If it has impact and
7 there is an impact to the health, the consumers,
8 it can't be de minimums, can it?

9 MS. KISHORE: So if it has an impact to
10 the human health, it's above the de minimis level
11 and that product is then, would be considered
12 adulterated.

13 MR. PAINTER: Okay.

14 MS. KISHORE: And again, the comment
15 period for this is closing the day after tomorrow.
16 So we would be happy to take any comments that you
17 have on this Federal Register Notice.

18 MR. PUZO: We're going to let Phil
19 address this, if you don't mind. Phil?

20 MR. DERFLER: Do you want to say
21 something for --

22 MR. PAINTER: Yes, I have one other

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1 point then.

2 MR. DERFLER: Okay.

3 MR. PAINTER: It seems to me then we
4 would have to have a standard for every residue,
5 chemical, something that would create a hazard in
6 order to determine what was de minimis for each one.
7 Would we not?

8 MR. DERFLER: This is Phil Derfler from
9 FSIS. So de minimis, under the case law, under the
10 legal case that you alluded to, means it's of no
11 regulatory concern.

12 A de minimis level is not a safe level.
13 It is usually way below what would be a safe level
14 on the basis of the available toxicological
15 evidence. If it existed.

16 So the answer is, we're only going to
17 find something de minimis, if on the basis of the
18 available evidence, we can say it's of no
19 regulatory concern.

20 That's all laid out in the Federal
21 Register document that Ms. Kishore referred to.
22 And if you have comments, we would urge you to

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1 respond to it. But basically it's lower than a
2 safe level.

3 MR. PUZO: Any other questions? Okay,
4 thank you, Rita. Next up, with Establishment
5 Specific Data Release Plan is Mr. Jeremy Todd Reed.
6 Jeremy?

7 MR. REED: All right, thank you.
8 Hello, I'm Todd Reed.

9 And I guess where I want to start with
10 today's presentation is to give some background.
11 Because I know so many members of the Committee this
12 year are new members. And so as I go through the
13 presentation I'll try to get kind of everyone up
14 to speed.

15 I think my presentation is probably a
16 little different than the last two. It's more on
17 transparency and less on actual technical methods
18 and things that the Agency is doing.

19 So the title is, Establishment Specific
20 Data Release Plan and FSIS Sampling Update. And
21 so really what I'm going to get to is two different
22 things in this presentation.

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1 One is about our specific
2 establishment, specific data release plan, which
3 I've been providing to the Committee updates for
4 several years. And as you'll see in the
5 presentation, we've been getting recommendations
6 and advice from the Committee in going back and
7 forth.

8 And also kind of a sampling update.
9 And it's really about an update to you and the
10 Committee of how we're being transparent in
11 providing information and making it available.

12 And so I apologize to anyone that I get
13 overly simplistic with. So I repeat stuff that
14 you've heard before. But just because we have so
15 many new faces, I do want to try to give a little
16 background as we go along.

17 All right, so to start, where we're
18 coming from is there have been several federal
19 level policy documents, and I'll get them in a slide
20 in a second, directing FSIS, and the government
21 really, about transparency, open data and data
22 sharing. And those have come down from

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1 administration and from OMB.

2 And so really this talks about how we're
3 trying to make that happen and operationalized
4 that.

5 Additionally, when we were being very
6 specific on establishment specific data, and I'll
7 get to define that in the next slide, we eventually
8 went to the National Research Council and they did
9 a study and wrote a report that really laid out
10 recommendations of how we needed to go forward.

11 And that recommendation really said
12 that this data could provide valuable insights that
13 go beyond the regulatory uses. Beyond which the
14 data were originally collected. And so it really
15 is a quite a benefit.

16 So policy background that I referred
17 to. All right, so starting in 2009 and in then 2011
18 and '13 and '14 you can see, and I'm not going to
19 read all the titles to you, you've got the slides
20 or you can see it there, but there have been a lot
21 of different memorandums and documents coming out
22 of the administration and out of OMB. Be

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1 transparent, push more information, push more
2 information provided.

3 I think one of the lessons that I've
4 learned, and maybe many of you have learned, is that
5 even when a government agency goes down this path,
6 it takes time. I mean, as you'll see on the next
7 slide, and I'll go forward, or in two slides, we
8 started this process in 2010 of going through of
9 asking for advice on how to do this, getting advice
10 from different committees, publishing in the
11 initial Federal Register Notice, getting comments.

12 And so being transparent providing
13 information, in doing it in the right manner, in
14 doing it responsibly and getting feedback, isn't
15 something you can snap your fingers and do. It
16 really does take a lot of time.

17 And I think this presentation, beyond
18 a specific content, really helps to lay that out.
19 And for me, that was a real learning experience,
20 I think, of how much effort it takes to get through
21 there.

22 So to set the groundwork. What is

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1 establishment specific data? So there's really
2 two key factors here when we mean establishment
3 specific data.

4 Okay, so it's data that FSIS generates.
5 So it's our own data that our inspectors are typing
6 in their data systems that the FSIS is generating
7 somewhere else.

8 It's not data that industry give to us,
9 it's not data from another government agency, it's
10 data that FSIS is generating. And it's data that
11 bears on specific establishments.

12 And what I mean by that, it's really
13 data where the observation is identifiable as
14 coming from that establishment. Like we know
15 which establishment it came from. It's very
16 specific. The sampling result goes to this
17 establishment on this day for this test.

18 What it's not, and I've covered this in
19 previous years but maybe is good is, not PII. Not
20 personally identifiable information.

21 So any information that we have that
22 we've tied that to our individual inspectors or to

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1 employees that work for the establishments and
2 industry, that data is going to be data we release,
3 right? We have to be responsible with the data we
4 release.

5 It's not going to be things that are
6 corporate proprietary, right? There's certain
7 information that we have that we work with industry
8 and is provided, but we're not allowed to release
9 that. And that's been ruled upon.

10 The data, when we do post it, if you see
11 the plan, the draft plan came out before, we're
12 working through the process. The final plan will
13 come out. It's going to outline where the data
14 will be.

15 It will be data.gov. There will be
16 links to it on our website, so it will be available.

17 All right, so history. How did we get
18 here?

19 So we started in 2010. We came to this
20 Committee and we really wanted to talk about how
21 or should we release the data.

22 The Committee talked about it quite a

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1 bit. But really the main recommendation was, in
2 the two days that this Committee has, and with the
3 next group, there just really wasn't the right mix
4 of time and expertise to make a recommendation.

5 And they said we should talk to someone
6 else with more expertise and more time to look at
7 the facts and look at the information to see what
8 we should do.

9 So FSIS, later in 2010, asked the
10 National Research Council, within the National
11 Academies, to conduct a study on this. And we
12 wanted them to example the potential food safety
13 benefits, and other consequences, of making
14 establishment specific data publically available
15 on the internet.

16 So the National Research Council look
17 at this information, they talked to a lot of people,
18 they did interviews, they gathered everything they
19 could and they wrote a report.

20 And effectively the report came out and
21 said, what I told you before, is it, yes, the
22 potential consequences for releasing this data is

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1 good. Like there are more benefits than there are
2 potential harms and FSIS should move forward.

3 But, before they move forward, FSIS
4 should make a plan. And the plan should outline
5 what we're going to do and the steps we're going
6 to do. And we should be very thoughtful and
7 conscious of that, as we go forward.

8 All right. They did say that public
9 release of establishment specific data, by
10 themselves or in a combination with other privately
11 or publically available data, could yield valuable
12 insights that go beyond the regulatory uses. So
13 I covered this. So it's available.

14 The available evidence of adverse
15 effects of public release of establishment
16 specific data, by other government agencies, is
17 insufficient to predict specific problems that
18 would be inherent in the release of establishment
19 specific data.

20 So what does that mean? To really draw
21 that one out. Basically they looked at the
22 negative consequences.

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1 They said, when we look at other
2 government agencies that have released data and we
3 looked at those negative consequences, there is not
4 enough evidence for you to hold that back. There
5 is not enough evidence to think FSIS should not
6 release that data.

7 So in other words they're saying,
8 releasing it is more benefit than potential
9 consequence from not releasing. And they couldn't
10 find that. But again, we need a carefully designed
11 strategy.

12 So FSIS actions beyond that. So we
13 came back to NACMPI in 2012 and 2013, based on those
14 findings of previous NACMPI and NRC, and we went
15 ahead and talked about how we developed an internal
16 FSIS meeting in our data coordination workgroup and
17 we developed a strategic plan to guide the release
18 of this data.

19 That plan we brought to NACMPI back in
20 2014 for feedback. We made changes to that plan
21 based on the recommendations we got and the
22 feedback we got.

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1 And then in 2015 we provided the updated
2 plan to NACMPI for public comment. And then we
3 released the draft plan via Federal Register
4 Notice. Also for public comment.

5 So what have we done since then in the
6 last year? So we've got the comment from NACMPI,
7 we got the public comment from the Federal Register
8 Notice, we've gone ahead and we've made updated to
9 the plan based on that feedback, we've drafted our
10 final Federal Register Notice and that's going
11 through the clearance process.

12 And so I mean, I guess me personally,
13 where I'm at is, I'm hopefully that next year, when
14 this comes around and I come back to the Committee
15 to give an update, I'll be able to say, I'm hoping
16 that the plan has passed, it's publically
17 available, you've seen the Federal Register Notice
18 and this is the progress we've made in posting data
19 sets.

20 All right, so changing subjects.
21 Slightly. Other data that we're releasing or
22 processes where we release data.

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1 So FSIS, for the first time, has
2 developed a five-year sampling plan. Many of you
3 in this room are aware that we've been doing annual
4 sampling plans every year. We publish those in our
5 website.

6 As you'll see on the next slide, in 2016
7 was the same. We published in the annual sampling
8 plan.

9 But we decided to go ahead and make a
10 longer arrange plan this time and we developed a
11 five-year plan. The final version of that is still
12 going through clearance, but once it's clear we'll
13 get it posted on our website.

14 And really what we're trying to do is
15 we're trying to outline our focus areas for the next
16 five years. About how we want to address some
17 gaps, we want to close some exceptions in some
18 potential new focus areas.

19 So we're really trying to give the
20 public and provide transparency of where we're
21 going over the next several years.

22 As I mentioned, we developed our FY16

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1 sampling plan. It's available on our website,
2 along with the '15 and '14 and probably a couple
3 more before that.

4 The annual sampling plan provides an
5 overview of our current sampling projects, the
6 number of samples we collected and analyzed in the
7 previous year, FY2015, and the number of samples
8 that we project to collect and analyze in 2016.
9 And provide some information on that.

10 Annual sampling data. So what I mean
11 by this is, many of you are aware that FSIS produces
12 a lot of quarterly reports in the annual reports
13 on our different sampling projects and we load
14 those to our website. Well, we try to update the
15 data on a timely manner.

16 But what we've come to realize,
17 internally as an agency, is that repeatedly doing
18 that, on the different sampling projects, is a lot
19 of work, a lot of labor on trying to get them through
20 and cleared and updated.

21 And so what we're doing, as an agency,
22 is that we're actually automating the process

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1 internally, so that we can produce the data in a
2 more consistent, timely manner. And then once
3 this is up and running, it's going to allow us to
4 post it on the website the same day that you're
5 seeing, in a more frequent, regular basis. And the
6 different sampling programs that we have will be
7 more consistent across them all.

8 Sampling results. All right, this is
9 a big one that we actually got up and running. It
10 is available on our website.

11 So starting for, in FY2016, we began
12 computing aggregate sampling results on a regular
13 basis. Quarterly is what we mean by regular basis.

14 What we mean by aggregate sampling
15 results are prevalence, volume weighted percent
16 positive or percent positive estimates for our
17 different sampling programs. And those are on our
18 websites.

19 And with those, how many samples we
20 collected, how many positives we found and what
21 those, those rates.

22 Each product pathogen pair is being

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1 computed separately when possible. And like I
2 said, we plan to update these each quarter and keep
3 publishing them on our website.

4 And that's it. Any questions? Okay.

5 MR. PUZO: Thank you, Jeremy. Next up
6 is Chris Bernstein, Director of Food Safety
7 Education with Safe Handling Instructions Update.
8 Christopher?

9 MR. BERNSTEIN: Thank you very much.
10 It's a pleasure to be here. I'm here to talk about
11 the Safe Handling Instructions Label that you see
12 here on the screen.

13 Just to recap, that label was first
14 discussed in 1993 and it was established in a rule
15 in 1994. Since then, that label has not had
16 significant revisions. And this presentation
17 today will update you on FSIS efforts to update this
18 label.

19 FSIS presented on this issue to NACMPI
20 during the January 2014 meeting. As you know, your
21 recommendations were complimentary to stakeholder
22 feedback we had received in 2013.

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1 The Committee recommended that FSIS
2 pursue changes to the existing safe handling
3 instructions label to include modifications and
4 improvements, such as including agency recommended
5 end point temperatures.

6 A very important note, from your
7 feedback in 2014, was that FSIS should conduct
8 consumer testing before any changes are finalized
9 for the safe handling instructions label.

10 For this reason, we engaged in a
11 requirements gathering contract to understand what
12 consumers are looking for, related to the safe
13 handling instructions label, in September 2014.
14 And that was done with RTI, a social science
15 research firm.

16 The first step of the strategic, the
17 first step rather, was a strategic discussion with
18 agency senior staff to understand any potential
19 limitations, regarding updates to the label
20 itself.

21 This meeting was held in November 2014
22 and the contractor obtained a valuable guidance on

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1 the history and current status of the safe handling
2 instructions label, potential ideas and issues
3 related to the changes.

4 This second step was six focus groups
5 with groups of consumers to gather information on
6 what they are looking for, related to instructions
7 on meat and poultry labels. Sessions were held in
8 Oklahoma City, Sacramento and Raleigh, North
9 Carolina, in both English and Spanish.

10 Groups included in the consumer focus
11 groups were at-risk populations, including older
12 adults and parents of children with children 5
13 years or younger in the home.

14 The package took some time to clear OMB
15 and was approved in November 2015. RTI worked
16 quickly and focus groups were completed by the end
17 of December 2015.

18 Finally, RTI is preparing an analytical
19 report and recommendations for the Agency. The
20 report is analyzing the potential changes to the
21 safe handling instructions level, based on
22 information that we gathered during the senior

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1 leadership strategic planning session and during
2 the focus groups that were just concluded in
3 December.

4 This report is scheduled for completion
5 this spring. And the preliminary data from the
6 focus groups is just the next topic that I want to
7 cover with you all.

8 To determine if safe handling, the safe
9 handling instruction label needs to be redesigned,
10 the requirements gathering contract created a
11 no-go -- a go, no-go table for us.

12 The table in this slide shows if certain
13 conditions were met in each focus group. The
14 general conditions were considered met with four
15 out of the six focus groups that we conducted
16 identified these as significant issues.

17 There were seven conditions overall
18 that were considered for an updated safe handling
19 instructions label.

20 So the first condition was if focus
21 groups thought adding a recommendation to use food
22 thermometers would be helpful.

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1 The second was about adding end point
2 temperatures.

3 The third was about finding the current
4 label hard to understand in some capacity.

5 The fourth was about believing if
6 useful information was necessarily missing from
7 the label that would help consumers safely handle
8 these products in the future.

9 The fifth was, if adding additional
10 information would make the label more persuasive
11 to consumers in the handling and cooking of these
12 products.

13 Sixth was, adding a source to go to for
14 more information. Currently that doesn't exist on
15 the label.

16 And the seventh was, using the food safe
17 families' icons. Which if you're familiar with
18 the public service advertising campaign that FSIS
19 operates with FDA and CDC. Those are icons for
20 clean, separate, cook and show, which are the four
21 key messages we use in the campaign.

22 So in the requirements gathering

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1 contract with RTI, we determined that if two or more
2 of these conditions were met, RTI would recommend
3 FSIS consider moving forward with a second round
4 of consumer research to test alternative formats
5 for the safe handling instructions label.

6 As you can see from the table above,
7 five out of the seven conditions were met. With
8 additional analysis from the focus groups, FSIS is
9 planning to move forward with label development and
10 additional consumer research on this project.

11 After the next phase of research, FSIS
12 will have a validated label that should meet the
13 needs of modern consumers in the home.

14 So next steps for this project. We are
15 concluding the requirements gathering contract and
16 are moving into the next phase of research.

17 Due to results from the requirements
18 gathering contract, we will work with a new
19 contract to review and re-design the safe handling
20 instructions label. The contract will be awarded,
21 likely in the next several months.

22 Moving into the next phase of the

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1 re-designed label, FSIS will also work with the
2 social and behavioral science team out of the
3 general services administration.

4 The SBST team includes leading
5 behavioral scientists and innovators from the
6 across the country, who provide government
7 agencies with new perspectives on developing and
8 maintaining consumer engagement, through
9 understanding human behavior.

10 That team itself was recently stood up
11 based on a executive order out of the White House
12 in September. That just encourages offices
13 throughout the federal government to incorporate
14 more rigorous behavioral change methodology into
15 how we make decisions in the federal government.

16 Once the new label is select, FSIS will
17 move to rulemaking. And we should be back at the
18 next meeting to discuss where we are with this
19 project and where the rulemaking is in the status.

20 So if you do have questions?

21 MEMBER BOOREN: Betsy Booren, the Meat
22 Institute. More of a comment.

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1 With this information, as it's moving
2 forward and you start initiate rulemaking, I think
3 it would be impactful for the industry, as you do
4 your economic analysis on the rulemaking impact
5 because there will be a significant one, to also
6 consider that you have accurate estimates from what
7 the change of the safe handling label would be to
8 retailers and the change with other labeling,
9 significant labeling changes, ahead for both the
10 retail and food industries.

11 Having those estimates, that my
12 understanding would change software, it would
13 require new machines for many of the retailers,
14 among other aspects. So making sure you have those
15 accurate estimates, let alone what is needed for,
16 I would say the packaged ready-to-eat industry, as
17 well as whole muscle, will be really critical.

18 MR. BERNSTEIN: Absolutely.

19 MEMBER BOOREN: Thank you. Thank you
20 very much.

21 MR. PUZO: Thank you, Chris. Okay,
22 next up with the Public Health Regulations Update

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1 is Chris Alvares, Director of Data Analysis
2 Integration staff.

3 MR. ALVARES: Good morning. So I'm
4 going to talk today about the Public Health
5 Regulations Update. This was an issue we brought
6 to the Advisory Committee back in 2013. We've been
7 continuing to work on it and provide updates.

8 Today we've got a little bit of
9 background for some folks who aren't too familiar
10 with the process or the public health regulations.
11 And also an update for 2016.

12 And I also wanted to touch base a little
13 bit on some of the related activities and the
14 agencies related to FSA work flows. Because the
15 public health regulations ultimately drive how we
16 determine which FSAs we conduct in certain
17 instances. And so the work flow of that is
18 important to how the public health regulations fit
19 into our overall process.

20 So back in 2008 we developed a data
21 driven approach to prioritizing a number of our
22 FSAs. Some of the ones that we felt were, what we

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1 call for cause or priority ones to conduct.

2 That was brought to the National
3 Advisory Committee in 2008. And also to the
4 National Academies of Science. And we published
5 a plan for implementing that in 2010 on our website.

6 Since then we implemented a new
7 information system. The data, the type of data we
8 collected caused us to kind of go back and reassess
9 how we were approaching that data driven strategy.
10 And came up with a new approach called the Public
11 Health Regulations. Which I'll go into more
12 detail in some subsequent slides.

13 We also have some updates that have gone
14 on just this past year implementing a new decision
15 making process called the public health risk
16 evaluation. This fits into our overall workflow
17 of assessing inspection data, performing this
18 evaluation based on that, conducting an FSA or
19 taking other action as the evaluators determine is
20 needed.

21 So this one is, I'll talk about some of
22 the other criteria in a second, but this is an

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1 important one to the Agency because it really does
2 take some of our inspection data. The data that
3 inspectors are recording at plants on a daily
4 basis, and tries to assess where there may be issues
5 that the Agency wants to focus additional
6 resources.

7 So it's one of the ones, in one of the
8 kind of unique ways that we're taking inspection
9 data, and using it to make decisions about further
10 actions or further evaluations.

11 There are a number of criteria. So
12 these public health regulations are one of a larger
13 set of criteria that we use to determine when to
14 do public health risk evaluations and potentially
15 FSAs.

16 We've just issued, in the past year, a
17 directive that updates or really consolidates this
18 list of criteria into one directive. Prior to that
19 it had sort of made its, different criteria had made
20 their way into different directives.

21 But you can see a full list in the most
22 current one. Which I believe is Directive 5100.4.

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1 But don't quote me on that.

2 You can see some of the other ones here.
3 Pathogen positives, enforcement actions, recalls.
4 A lot of those are based on single events or sort
5 of larger issues. Whether it's laboratory testing
6 or recalls from our recall actions.

7 The public health regulations are
8 really the one criteria on this list that focuses
9 on inspection data and really the large volumes of
10 inspection results that we gather on a daily basis.

11 So how do we develop these public health
12 regulations? We have a criteria that we've laid
13 out in a report that we have on our website. It's
14 at a very high level, a four step process.

15 We define a set of criteria that we used
16 to select theregulations that we want to evaluate.
17 So those criteria are, you know, it does
18 noncompliance in this regulation, potentially
19 result in a loss of process control, does it
20 indicate a loss of or issues with sanitation, does
21 it indicate an inability of the plant to implement
22 corrective actions. It's those very high level

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1 sort of criteria that we use.

2 And then we look at our regulations and
3 we sort of evaluate them against those criteria.
4 To really ask the question, does noncompliance in
5 this regulation infer or imply a potential risk?

6 Now, not every noncompliance is going
7 to meet that criteria, but we think that there can
8 be noncompliances in those regs that rise to that
9 level of maybe public health significance.

10 And so from that, applying that
11 criteria, we developed a candid list of
12 regulations. We use data to analyze those
13 regulations to various outcomes.

14 So when we first implement this, we were
15 looking primarily at pathogen outcomes. Were
16 higher noncompliance rates in these regulations,
17 prior to a positive -- well were the regulations
18 higher in plants that had positives, then in ones
19 that didn't?

20 And really we look at that, assess that
21 by looking at their recent history before that
22 event. We look at the 90 days prior to try and see

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1 if there's any elevated noncompliance prior to that
2 pathogen positive event.

3 Since then we've expanded that, and
4 I'll talk about that in an upcoming slide. But we
5 use that data to narrow down the list to, not just
6 ones that we sort of qualitatively feel are
7 important regulations, but ones that our data
8 support links to outcomes.

9 And so we use those, we narrow it down
10 to this final list. And those become our public
11 health regulations for that fiscal year.

12 Once we've developed that, then we go
13 through and we look at all of the establishments
14 that are noncompliance rates for that set of regs
15 and we define a set of cut points. And we say,
16 essentially if the individual establishment's
17 noncompliance rates, for those regulations rises
18 above this cut point, they will be prioritized for
19 this public health regulation and potentially FSA.

20 So what happens is, once we develop this
21 list each year, we implement it by evaluating
22 establishments on a monthly basis, calculating

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1 their rates, prioritizing the ones that exceed
2 these cut points and we send those lists out to the
3 districts to act upon. Whether it's conducting a
4 PHRE or taking some other action.

5 So this public health regulation
6 criterion was launched in 2003. We actually
7 brought this issue, I'm sorry, 2013.

8 We actually brought this to the
9 National Advisory Committee in January of that
10 year, basically asking the question, we present our
11 methods to the Advisory Committee and we
12 essentially asked, do you agree with our approach,
13 is there anything that we've missed in this
14 process, should we proceed or should we do further
15 work?

16 Really, the recommendation from the
17 Committee was to proceed with implementing this
18 particular criterion, but did have a number of
19 recommendations for us.

20 For example, they suggesting adding
21 some of the, at that time, some of the new pathogens
22 that we were beginning to test for. They asked us

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1 to look at some other data, besides pathogen
2 outcomes.

3 They also really recommended that we
4 focus on sort of a post hoc analysis, looking at
5 the feedback loop. Are the outcomes of the FSAs
6 that are scheduled by this process really
7 supporting or really validating that we've
8 identified the more problematic issues or the more
9 at risk establishments to evaluate.

10 There was also a recommendation from
11 the Committee to really focus on communication and
12 transparency. Both to industry, as well as to our
13 workforce. So that they know how their inspection
14 activities are really informing larger agency
15 decisions and actions.

16 We moved forward based on the
17 recommendations with the approach that we had in
18 2013. We published that on your website. But we
19 have continued to reevaluate and make updates.

20 Every year we go back to our candidate
21 list of regulations. We evaluate using the most
22 current data and we update the list accordingly.

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1 Some regulations drop off the list,
2 some new ones come on. We really look at what the
3 data is telling us in the most current fiscal year
4 to make those kinds of decisions.

5 We also at times get new regs that get
6 added to what we're verifying in our systems. And
7 so that can also be incorporated into our annual
8 updates.

9 We included 90157 STEC in Campylobacter
10 in 2015. We also expanded our outcomes to include
11 enforcement actions. NOIES and suspension
12 actions. And found that to be a significant source
13 of regulations, as well, for this process.

14 So, to give you all an update on 2016
15 in particular, the methodology is essentially the
16 same. We haven't made any significant changes
17 this past year.

18 We had made some minor updates to some
19 of the more technical details about how we
20 determine cut points. Sort of at the, when we're
21 evaluating the NRS.

22 We have published a report that was

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1 posted in, around July of 2015 on our website that
2 talks a little in detail about some of these
3 changes. But largely the same methodology as we
4 had used in 2015. So it still uses some of our
5 additional pathogen data and enforcement actions.

6 The FY16 list is a set of 54
7 regulations, and I should say sub parts to the
8 regulations as well. Thirteen have been added,
9 compared to the prior year list. Forty-one of the
10 FY15 regulations carried over. That's about an 85
11 percent retention rate from FY15.

12 We also saw about an 80 percent
13 retention rate when we moved from the FY14 to FY15.
14 So we've done this for a couple years. We're
15 seeing about 80 to 85 of the regs stay the same from
16 year to year. But we do see some new ones get
17 added.

18 And just to give you some perspective
19 on, without going through a very detailed list of
20 the regulations, which are available on the website
21 and in the report, we did break down the regulations
22 into some of these kinds of themes. These

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1 categories that I talked about a little bit
2 earlier.

3 Roughly half of them, both in FY15 and
4 FY16, fall into the general category of preventing
5 insanitary conditions. Another quarter or so fall
6 into a general category related to hazard analysis
7 and HACCP plans.

8 And then the balance of them fall into
9 other categories, such as maintaining adequate
10 records, monitoring critical control points,
11 identifying corrective actions and preventing
12 recurrence.

13 As I mentioned, we don't just develop
14 these regs each year, but we really have a monthly
15 evaluation process that goes on really
16 continuously since we've implemented this. We
17 evaluate each plant, each month, against their
18 respective cut points.

19 One of the issues that came to the
20 Advisory Committee, back in 2013, was to look at
21 our cut point process. And the way that we do that
22 is we categorize plants into, originally three,

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1 although we've collapsed that down into two
2 operation types.

3 So currently we're using a processing
4 only group of establishments and then a
5 combination, which includes slaughter and
6 processing.

7 Originally we had a slaughter only
8 category. We ended up rolling that into the
9 combination group, just because that group of
10 slaughter only was a fairly small group, relatively
11 speaking. And it just made more sense to simplify
12 the operation types and to group them into one of
13 the two other categories.

14 You can see the cut points here. So
15 what we do is we look at all of the regulation
16 verifications that inspectors are doing.

17 When they go out to a plant and they are
18 doing an inspection activity that day, they
19 document in our system, not just the task that they
20 performed, but what regulations they verified,
21 when doing that task.

22 When there's a noncompliance, they also

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1 identify what regulations specifically were
2 noncompliant out of the ones that they verified.

3 And so we look at that ratio of, for the
4 public health regs, the number of verifications,
5 or really the number of regs found noncompliant,
6 divided by the number of regulations verified.
7 And we use that to come up with a percent for each
8 establishment, looking at the prior 90 days, and
9 we compare it to these cut points.

10 As I mentioned, what we do with that
11 data has changed a little bit in the past year.

12 Originally, when we had implemented
13 this, establishments that were evaluated each
14 month and ended up on the, what we call the four
15 cause FSA list, were sent to districts and
16 districts would review those and plan out their FSA
17 schedules for the upcoming months. And so the
18 outcomes of this decision criteria have led
19 directly to conducting FSAs at various
20 establishments.

21 In 2015 we made two, I think, important
22 changes to our workflow and our process. One is

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1 that we introduced what we call a public health risk
2 evaluation, or PHRE.

3 This is conducted, it's essentially a
4 data review, an in-depth data review of available
5 data that the agency has for an establishment. I
6 think we looked at prior FSAs. We look at sampling
7 data, we look at noncompliances.

8 We have EIAOs who are, I'm going to
9 forget the acronym now, but the evaluation
10 investigation and analysis officers out in the
11 districts who really do in-depth reviews of
12 establishments. They're the ones who are doing
13 FSAs.

14 Now they're, in addition to that, prior
15 to doing an FSA, we're doing this PHRE evaluation
16 and making a determination about whether an FSA is
17 warranted. Or maybe they're making a
18 determination to move directly to an enforcement
19 action or suspension.

20 The data may already be there to support
21 taking a more significant action, other than an
22 FSA.

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1 But they may also make a determination
2 that based on the data that informs this public
3 health reg evaluation, that no further action is
4 needed.

5 There may have been a recent a FSA or
6 there may have been an FSA conducted for another
7 reason. And so it is possible to take no further
8 action as well.

9 So there are different outcomes that
10 occur as a result of this PHRE. Which is now the
11 event triggered by the public health regulations.

12 We also updated the FSA methodology
13 itself. Originally it was a really in-depth
14 review. It took roughly, I think on average, about
15 two weeks. And looked at a wide range of
16 activities in the plants.

17 We focused that down and redesigned it
18 to be completed in approximately a week. It looks
19 more comprehensively at the food safety system of
20 the establishment. And so our approach has
21 changed a little bit in terms of what we're
22 evaluating with the FSA and therefore the outcomes.

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1 I think all of that is really to kind
2 of get to a point here which is that, although we're
3 very committed to conducting ongoing analysis,
4 looking at the feedback of this process, we have
5 had changes in our process that we have to
6 incorporate into our analysis as we go on from
7 year-to-year.

8 We have looked at data on some of our
9 preliminary work. Suggests that this process is
10 identifying plants that warrant sort of closure in
11 evaluation.

12 We don't have anything that's ready to
13 publish yet or bring in front of the committee, but
14 we do believe that this process is working. But
15 we also, with the changes to the process, are going
16 back and looking at the PHRE in particular and how
17 that process is informing the overall workflow.

18 But in addition to that, we are
19 continuing to make updates. In one area in
20 particular is with communications.

21 The report has been posted. We update
22 the website each year with the 2016 regs. As well

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1 as our analysis report and some of the data
2 supporting that.

3 You can see specific details about, for
4 example, what regs were found significant in what
5 operation types and for what pathogens. But we
6 bring that all together to come up with our overall
7 FY16 report.

8 We also post the cut points. And we
9 issue a notice each year, both to our, primarily
10 to our workforce, to inform them about the updates.
11 I know a lot of stakeholders also very interested
12 in those notices and so it helps inform them as
13 well.

14 We also use other communications, such
15 as constituent updates, to notify about updates to
16 the public health regs.

17 Last year we implemented a PHIS reports
18 that, for both industry and consumers. So those
19 industry users that have access to PHIS can run this
20 report, they can see what their rates are each
21 month, they can look at the noncompliances that
22 contribute to that and helps them better assess

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1 what's going on in their plant and take their own
2 actions as needed.

3 It's also available to our inspection
4 workforce, our district offices, for them to run
5 as needed.

6 This year we have added another layer
7 to that, which is what we call a PHIS early warning
8 report. This informs our in-plant personnel of
9 establishments that have had, what we call sort of
10 elevated rates.

11 They aren't high enough to exceed the
12 cut point, they aren't high enough to trigger this
13 PHRE workflow, but they are at levels that if they
14 continue increasing, may get to that point.

15 And so we've added alerts that go out
16 to our workforce to let them know that their
17 establishment is not quite at the cut point, but
18 at an elevated level. And they may want to look
19 at what's been going on in the plant, look at their
20 last 90 days and see if there's anything that may
21 warrant action as well.

22 Just a quick example of the report with

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1 some information. So in summary, we continue to
2 reevaluate the data and make updates.

3 We are seeing some overall consistent
4 results from year-to-year in terms of the broad
5 themes and regulations and the carryover. But we
6 do see some changes.

7 We think that that's informative, we
8 continue to look at that and see what's changing
9 and how. And we're using that to try to assess the
10 effectiveness of this overall process and to make
11 improvements as we can.

12 We added an alert this year that
13 strengthens our communications out to our
14 inspection workforce in this area.

15 We've implemented this public health
16 risk evaluation, updated our food safety
17 methodology and we're going to be taking a look at
18 both of those changes in the coming year to really
19 evaluate how affective we've been at prioritizing
20 these establishments.

21 We are starting, right now, to plan for
22 our FY17 evaluation. So this is the time of year

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1 where we do analysis.

2 We plan to bring that to our governance
3 and announce the results of that in the July
4 timeframe, or end of June, and implement that at
5 the end of the fiscal year and take effect in
6 October of this next year.

7 So work is ongoing and we welcome any
8 questions from the Committee. Yes, Sherri?

9 MEMBER JENKINS: Hi, Sherri Jenkins
10 with JBS. On that alert that you said gets sent
11 out to the IPP, is there also a same alert that goes
12 to the establishment in PHIS too?

13 MR. ALVARES: There is not yet an alert
14 that goes to establishments, but we have had that
15 request come to us. We are evaluating it.

16 The alerts have sort of primarily been
17 designed for our inspection workforce, but I don't
18 think it's beyond the capabilities of PHIS to do
19 that. But we do have to kind of assess that. So
20 we are looking at that.

21 MEMBER JENKINS: Okay.

22 MR. ALVARES: That request has come in.

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1 MEMBER JENKINS: And then just a second
2 part of that is, in the monthly PHIS meeting or the
3 weekly PHIS meeting, is it encouraged that the IPP
4 discuss that with the establishment?

5 Meaning if there is an alert that comes
6 out that they would be sharing it if we can't get
7 the alert directly?

8 MR. ALVARES: The weekly meeting that
9 IPP have with plant management? So I forget the
10 exact details of what the notice recommends, but
11 it does recommend that IPP talk to establishments,
12 when the notice came out, to inform them of updates
13 to the public health regs.

14 I don't believe that the inspectors are
15 asked to sort of provide weekly updates. I think
16 that we are really encouraging plants to get access
17 to PHIS and look at that, run that report themselves
18 as needed.

19 But the details of what we ask IPP to
20 do with plants, I'd have to defer to what's in our
21 notice and directive. I think Sheila was next?

22 MEMBER JENKINS: Sherika.

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1 MR. PUZO: Sherika.

2 MR. ALVARES: Sherika.

3 MEMBER HARVEY: Sherika Harvey,
4 Mississippi Department of Agriculture.

5 To answer your question, IPP personnel
6 are to, are instructed to speak directly to the
7 plants about those alerts and notices that come
8 out.

9 MR. ALVARES: Thank you.

10 MEMBER HARVEY: So yes, that is
11 implemented.

12 MR. ALVARES: Randall?

13 MEMBER PHEBUS: Randy Phebus, Kansas
14 State University. Do you have any way of
15 correlating how the companies who are running the
16 reports and how well they're doing versus companies
17 that are not and maybe using that as an
18 encouragement tool for improving food safety?

19 MR. ALVARES: Well, that's an
20 interesting idea. We have not looked particularly
21 at the plants that have PHIS access and whether
22 they're sort of using that data.

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1 We have seen, we have looked at sort of
2 trends in the reports and the PHRE report of the
3 four that are available to industry. That is one
4 of our fastest growing reports in terms of
5 utilization.

6 So I think there is, for those who are
7 looking at it, who have PHIS access, that's one of
8 the most popular reports. But we haven't tried to
9 correlate that yet to this analysis. That's an
10 interesting idea.

11 Tanya?

12 MEMBER ROBERTS: Yes. Tanya Roberts.
13 CFI.

14 I was kind of puzzled by the Foster
15 Farms outbreak that went on for two years and I was
16 wondering, why in the world couldn't you take
17 action sooner?

18 I mean it seemed to me as though finding
19 a positive in the plant is enough, isn't it?

20 MR. ALVARES: So that's a tough
21 question.

22 MEMBER ROBERTS: I thought it used to

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1 be.

2 MR. ALVARES: Yes. To answer it in
3 this particular context. I mean positives that
4 the Agency, like STEC and listeria positives are
5 criteria that would trigger an FSA and an in-depth
6 assessment.

7 The particulars of Foster Farms, I'm
8 not really, I don't know enough of the details to
9 go into here.

10 MEMBER ROBERTS: Okay.

11 MR. ALVARES: John?

12 MEMBER MARCY: John Marcy, University
13 of Arkansas. Since you instituted the public
14 health risk evaluation, do you have any sense of
15 the three outcomes, what percentage those have
16 generated? Whether it's a NOIE or other outcome?

17 MR. ALVARES: Unfortunately I don't
18 have any data to share here. We implemented that
19 around summer of last year and I think we do need
20 to be looking at that.

21 I know the districts are looking at that
22 pretty regularly. I don't have any data myself to

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1 share today. Sorry. Do we have --

2 MR. PUZO: Do you have other questions?

3 MR. ALVARES: Yes?

4 MR. PUZO: Okay, thank you.

5 MR. ALVARES: Okay, thank you.

6 MR. PUZO: Thank you, Chris. Okay,
7 our final presentation is on Chicken Livers, a
8 Review of Risks by Captain Kis Hale with the applied
9 epidemiology staff.

10 CAPT ROBERTSON HALE: Good morning
11 everyone. I'm the deputy director of the applied
12 epidemiology staff. And I'm really happy to have
13 the opportunity to talk to you about an emerging
14 food safety issue that I consider pretty important,
15 as well as the folks in my staff.

16 So in the interest of time I'm going to
17 skip over the overview and just jump right into the
18 background.

19 In recent years, FSIS has investigated
20 several outbreaks attributable to chicken livers.
21 An investigation into these outbreaks have
22 revealed certain patterns and etiology exposure

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1 settings in cooking practices.

2 And these patterns suggest that these
3 incidents aren't isolated, but rather indicative
4 of a larger systemic problem. These outbreaks
5 have also shown persistence, with the most recent
6 occurring in just this past January.

7 As a result, OPHS is becoming
8 increasing concerned about the risk associated
9 with this product type.

10 To better understand the factors
11 accounting for these outbreaks, OPHS conducted a
12 review of outbreak data, scientific literature and
13 FSIS science programs and policies, to better
14 understand this issue.

15 In this presentation, evidence will be
16 shared for informational purposes with two general
17 aims in mind. Mainly just to put this out there
18 for experts in and outside of the Agency and
19 hopefully stimulate some conversations around what
20 we could be doing to address this issue.

21 And two, eliciting feedback from the
22 Committee on additional questions we might want to

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1 probe, as we strategize further.

2 So chicken livers belong to a group of
3 poultry organs collectively referred to as
4 giblets, along with gizzards and hearts.
5 Consumers commonly eat chicken liver in the form
6 of pate, but many also prepare and eat chopped
7 liver.

8 Although increasingly, chicken livers
9 are finding their way to the mainstream. This
10 product is still closely associated with certain
11 ethnic traditions in niche communities.

12 In 2011 to 2015, six chicken liver
13 outbreaks were reported to FSIS. Four
14 characteristics stand out as common among them.

15 The vast majority, or 83 percent,
16 involved *Campylobacter*. The same proportion
17 involved restaurants or institutions as exposure
18 settings.

19 Eight-three percent involved chicken
20 liver pate. And undercooking was identified as a
21 factor in all six.

22 In addition, most were relatively small

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1 and localized, involving only a single state, with
2 fewer than ten case patients.

3 The exception was a large scale
4 outbreak comprised of a 190 Salmonella Heidelberg
5 infections linked to chopped liver that was
6 packaged such that it appeared ready-to-eat when
7 it was actually not ready-to-eat. In total, 220
8 illness and 36 hospitalizations were associated
9 with all six reported outbreaks.

10 For the same time period, five
11 additional outbreaks were captured in CDC NORS
12 database. And like the others, common features
13 include Campylobacter, restaurants, chicken liver
14 pate and undercooking. Forty-three illness and
15 two hospitalizations were associated with these
16 outbreaks.

17 So over a five-year period we're
18 talking about a total of 11 outbreaks linked to
19 chicken livers in the United States.

20 A review of published reports found
21 that we're not hardly unique in this particular
22 phenomena. Australia, New Zealand and the UK have

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1 documented similar outbreaks in recent years.

2 So we've talked about restaurants, but
3 what kind of restaurants? Most have been rather
4 small, high-end establishments that tout the use
5 of locally grown organic ingredients and cater to
6 diners seeking an eclectic perhaps European
7 inspired dining experience.

8 Another affected group includes
9 residents in assisted living facilities serving
10 the Jewish community and other ethnic groups. And
11 two other groups include participants in gourmet
12 potluck events and the alternative health
13 community.

14 An example of that I'll highlight a
15 little bit later on this topic.

16 Given that most of the outbreaks that
17 we've seen involve campy, we shall hear national
18 trends in Campylobacter illness from 2006 to 2014.
19 As you can see, in 2009 illnesses started to show
20 an increase and then a leveling off between 2011
21 to 2014. It's during this plateau when most of the
22 chicken liver outbreaks have occurred.

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1 There are two points worth mentioning
2 here. Due to a number of factors, including the
3 difficulties in subtyping in this pathogen, using
4 conventional technics like PFGE, relatively few
5 campy illnesses are every linked to a recognized
6 outbreak.

7 So with this it's rather remarkable
8 that not only have we seen 11 campy outbreaks in
9 the last five years, but also that of all the
10 Campylobacter outbreaks we've seen, that haven't
11 involved co-infections with Salmonella, all of
12 them have been linked to chicken livers. And so
13 that makes it likely that what we're really seeing
14 is just a tip of a larger iceberg.

15 So in addition to what we know about
16 outbreaks, there's also evidence that campy is not
17 just a contaminant that's limited to the surface
18 of chicken liver.

19 In 1983, Barot and others showed
20 evidence of interior contamination by recovering
21 campy in 20 out of a 117 chicken livers that were
22 first surfaced treated in alcohol.

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1 Later on White and others conducted a
2 similar study in New Zealand and recovered campy
3 in 90 percent of livers that were purchased at
4 retail.

5 And then in 2009 Cox and others at ARS
6 used a different approach by testing livers that
7 were harvested from necropsy laying hens and they
8 were able to recovery campy in 18 percent.

9 So both the Barot and White studies
10 found that rates of external contamination were
11 generally higher than internal, which suggest that
12 the environment plays a bigger role in overall
13 pathogen prevalence than does tissue colonization.

14 That said, the presence of pathogens
15 within the liver tissue has greater implications
16 to the risk associated with undercooking. And I
17 will be elaborating on that next.

18 Studies have also shown recovery of
19 Salmonella from livers. And in these studies,
20 most of it involves experimentally infected
21 chickens.

22 So now I'll talk about consumer's bias,

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1 which favors under cooking of chicken livers adding
2 to the risk of, associated with this product type.

3 So we reviewed social media, blogs and
4 articles in the popular press for evidence of
5 consumer preferences, attitudes and widely used
6 cooking practices. And we found evidence that
7 consumers undercook liver based on three different
8 motivations. Some of which may or may not overlap.

9 And these include taste preference,
10 health beliefs and low or misinformed risk
11 perception.

12 First with the taste preference. So in
13 our review of recipes, a number of themes
14 consistently jumped out. Such as cooked to rare
15 or medium rare, cooked until just warm in the
16 middle, cook quickly or cook until still pink or
17 Rosie on the inside.

18 We also found a quote, seen here to the
19 right. There's nothing, nothing that makes me
20 grumpier than overcooking liver. Which kind of
21 highlights the emotional importance some
22 connoisseurs give to not ruining chicken livers by

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1 cooking them too long.

2 So all in all, these messages likely
3 lead impressionable food preparers to err on the
4 side of undercooking, at the expense of food
5 safety. Okay.

6 So the quote here shows the existence
7 of consumers who tout the supposed health benefits
8 of eating, not just undercooked chicken liver, but
9 raw chicken liver. And the author appears to
10 recognize that there are some risks to raw liver,
11 but they apparently also believe that these risks
12 are offset by great advantages to health.

13 Appreciate as well that they're
14 apparently are a fan of raw milk and that also
15 happens to be another source of Campylobacter.

16 Supporters of this view maybe a small
17 minority of the public. However, it should be
18 pointed out that in one outbreak that we
19 investigated in 2014, a Washington case patient
20 became ill after consuming pills formed from raw
21 liver, for perceived health benefits.

22 And finally, there's evidence that many

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1 consumers harbor misinformed opinions about
2 chicken livers that lower their perception of risk.
3 This question was posted on an online message
4 board.

5 Why is it okay to cook chicken liver or
6 the inwards medium rare, but not the chicken
7 breast?

8 I understand there are dangers of
9 Salmonella, but doesn't that exist in the innards
10 of the chicken?

11 So on one hand you have a person that
12 understands and is informed enough to see that
13 there is discrepancy in how we treat chicken livers
14 as compared to other poultry parts, but on the other
15 hand, this person is not informed enough to know
16 the answer to this question themselves. Which
17 means they're vulnerable to misinformation.

18 And as you can image, the answers that
19 were posted in response to this question span the
20 gambit. There were some reasonably sound answers,
21 but then there were others that were pretty crazy.
22 And patently so-so.

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1 Okay, so what has the Agency done in
2 recently years that address poultry, including
3 giblets?

4 So as we know, we recently implemented
5 the Salmonella action plan, which includes several
6 initiatives to promote poultry pathogen reduction.
7 Major initiatives include PR/HACCP, changes to the
8 PR/HACCP sampling and associated performance
9 standards, revised compliance guidelines and
10 increased consumer education.

11 New areas of emphasis also include
12 chicken parts, poultry and pre-harvest controls
13 that are, have been included in our published
14 compliance guidelines.

15 Despite this relatively large and
16 comprehensive package, the risk associated with
17 chicken livers has not been specifically targeted,
18 until recently.

19 So to recap some of the conclusions
20 here. Chicken livers are an under recognized
21 source of foodborne illness in the United States.

22 Consumer risk is heightened by two

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1 factors. Pathogen contamination within liver
2 tissues and preferences, biases and practices that
3 favor undercooking.

4 But all is not bad, we have not
5 exhausted all options for addressing this issue.
6 There are opportunities for the design of
7 prevention strategies that are targeted to chicken
8 livers.

9 Over the past few months, OPHS, OPPD,
10 OPACE have been discussing strategies to address
11 this issue. Three major areas for action have been
12 identified.

13 The first concerns consumer education.
14 I'm happy to say that OPACE has already made some
15 headway in this area by posting advice in the food
16 safety blog concerning the use of meat thermometers
17 when cooking chicken livers. And also asking
18 restaurants or telling consumers to ask
19 restaurants about their cooking practices with
20 respect to pate.

21 And hopefully we'll continue to explore
22 ways that we can keep similar messaging out there

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1 in the public arena so that consumers can see it.

2 Outreach to restaurants and others in
3 the hospitality industry is another area we're
4 currently strategizing around. And as with the
5 public, this group may have misconceptions that
6 could be address with education.

7 And finally, we're considering
8 suitable guidance to the poultry industry that
9 promotes affective risk mitigation strategies.

10 For instance, studies have shown that
11 freezing is effective in reducing campy in chicken
12 liver and it's possible that additional research
13 could unlock other interventions that producers
14 and processors could use. And in fact, this topic
15 has been submitted for consideration as an Agency
16 research priority.

17 All right, I would like to thank the
18 team at the applied epidemiology staff for pulling
19 together the information that went into this
20 presentation. I thought they did a great job and
21 welcome any questions or feedback. Thank you.

22 MEMBER BOOREN: I have a quick question

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1 for you. What is FSIS', oh, Betsy Booren, the Meat
2 Institute. Thanks, Sherri.

3 What is FSIS' recommendation for end
4 point cooking temperature for chicken livers and
5 does it align with the food code?

6 CAPT ROBERTSON HALE: Our
7 recommendation right now, it's basically the same
8 for any poultry. That's my understanding, it's
9 165. So it would be in line with the food code.

10 MEMBER PHEBUS: When you look at the
11 outbreak data, do you have any indication how much
12 cross contamination in the food service kitchen or
13 the consumer kitchen that's playing a role here?

14 I got a feeling that the way all of these
15 products are prepared there's a lot of handling and
16 potential for cross contamination and I think we
17 should look at that a little bit more.

18 CAPT ROBERTSON HALE: It's a good
19 question. I think if it was cross contamination
20 we'd be seeing a lot of other cases or case patients
21 being identified that did not report direct
22 consumption of chicken liver in these outbreaks.

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1 But consistently we see that all of the
2 folks that are being part of these outbreaks have
3 had pate consumption. So that kind of points to
4 that this is a direct exposure and not an indirect
5 exposure.

6 MR. PUZO: Thank you. Well let's
7 thank all of our presenters today for a great deal
8 of information. We'll break now until 11:00.
9 There is coffee out in the lobby, if those inclined,
10 and see you back in about 14 minutes.

11 (Whereupon, the above-entitled matter
12 went off the record at 10:48 a.m. and resumed at
13 11:03 a.m.)

14 MR. PAYNE: All right, everyone. If
15 we could take our seats, we'll resume our meeting.
16 As a reminder for anyone, if you'd like to make a
17 comment during the comment period this afternoon,
18 please sign up at the registration desk outside.

19 I do want to make a note here that the
20 National Advisory Committee on Meat and Poultry
21 Inspection received several comments through the
22 public comment process.

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1 We do appreciate the comments from the
2 American Frozen Food Institute, the Safe Food
3 Coalition, and the Association of Food and Drug
4 Officials.

5 For all the committee members, you have
6 received the printed out comments from the American
7 Frozen Food Institute and the Safe Food Coalition,
8 and the comment from the Association of Food and
9 Drug Officials will be coming to you shortly and
10 it will be distributed to you, so you can have it
11 for your deliberations this afternoon.

12 Now we'll start looking into the
13 charges, the specific charges for the committee,
14 and we're going to start with the introduction of
15 Ms. Kristina Barlow.

16 She's a senior microbiologist with the
17 Risk, Innovations, and Management Staff, and she's
18 going to provide an overview on the agency best
19 practices guidance for controlling *Listeria*
20 *monocytogenes* in retail delicatessens.

21 And without further ado, I'll turn this
22 over to Ms. Barlow.

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1 MS. BARLOW: Thank you, happy to be
2 here today to talk about this project. Been a long
3 time coming in our agency. Been working on this
4 project for several years to evaluate Listeria
5 control at retail, develop guidelines, and then see
6 if retailers are following them.

7 I see several familiar faces here, so
8 thank you for discussing what we feel is a very
9 important topic to our agency and also to public
10 health.

11 So the guidance document was issued in
12 2014. We accepted public comments on it. We
13 revised it, reissued it. You should have received
14 a copy of the guidance document in your packet.
15 There's also additional copies out there.

16 So I'll talk a little bit about the
17 guidance document, give you some background on it,
18 and then also go into some of the preliminary
19 findings that we're seeing from a pilot program
20 that we're doing at retail.

21 So basically, the guidance document
22 advises retailers of specific steps that they can

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1 take to control Listeria in the retail environment.

2 And this information is based on a risk
3 assessment, a joint risk assessment that FSIS, FDA
4 and CDC issued describing the risk of illness
5 associated with just different steps that are
6 performed at retail during the handling of meat and
7 poultry products and other products produced at
8 retail. So it's really across the board.

9 So although this guidance document
10 specifically focuses on meat and poultry products
11 that are sliced at retail, really, it can be applied
12 for any type of product in the deli area.

13 It also contains information from the FDA
14 Food Code, the scientific literature, and lessons
15 learned from Listeria control in the meat and
16 poultry processing establishments.

17 So as you know, we've got a long history
18 of driving down Listeria levels and actions that
19 could be taken within the food processing
20 establishments that can also be applied to retail
21 facilities and delis.

22 So when you think about it, it's really

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1 the same organism. The organism itself doesn't
2 change, and a lot of the same actions that are
3 happening at retail as far as the slicing and the
4 handling of these products before it reaches the
5 consumer.

6 You know, there are of course some
7 obvious differences. We don't have the same level
8 of control. There's lots of places for
9 cross-contamination. A few carts coming in,
10 people, you know, the customer, lots of areas for
11 cross-contamination at retail you might not have
12 in the FSIS-inspected facilities, but that just
13 adds some extra challenges and those are some
14 things we've covered in the guidelines.

15 So the guideline also contains a
16 self-assessment tool that retailers can use to
17 determine the practices they can take to address
18 Listeria in the deli area.

19 So why did we develop this guideline and
20 this Listeria initiative at retail? There is a
21 risk assessment that showed that of the illnesses
22 for deli meat, specifically, about 83 percent were

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1 from those deli meats sliced at retail versus those
2 packaged in federally inspected establishments.

3 We've also seen that our positive rate
4 from the federally inspected establishments has
5 been low. We've seen a big decrease over the
6 years. We're down to about 0.34 percent from deli
7 meats sliced at retail.

8 Yet, to hear from CDC shows that the
9 level of listeriosis is plateau or remains about
10 the same and hasn't decreased significantly like
11 it would if all of the contamination is coming from
12 the products that we test at the federally
13 inspected establishments. So that caused us to
14 look further to see what actions we could take to
15 further address listeriosis illness.

16 So this is an example from FDA outreach
17 materials that they provide on their website of
18 listeriosis harborage that could be found at
19 retail.

20 So this shows a slicer, one of the ones
21 that typically could be used in FSIS establishments
22 or at retail, and it shows you where Listeria could

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1 form harborage of underneath, I can't really point,
2 but of underneath those blades or the seals.

3 So that's why it's important to break
4 those equipment down when cleaning to make sure
5 that Listeria doesn't continue to contaminate the
6 product, every product that's sliced as it goes
7 through.

8 There's one study I think that showed
9 if the slicer was contaminated and you continue to
10 slice a meat product, I think this was a ham product
11 in this case, up to the 14th slice would be
12 contaminated.

13 So it continues to contaminate the
14 product slice after slice once the slicer becomes
15 contaminated. And that's a big show point that
16 we've seen, so that's one area where we focus.

17 So as I said, the guidance provides
18 practical recommendations that retailers can use,
19 and they're really separated into four areas which
20 are product handling, cleaning and sanitizing,
21 facility and equipment controls, and employee
22 practices.

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1 And so those are the four main areas
2 that were shown by the risk assessment to impact
3 the level of illness from deli products, and those
4 are the four areas that we focused on with our
5 recommendations and also with our pilot project
6 which I'll be talking about later. You'll see that
7 carried through.

8 We also remind people that of course
9 some of these are recommendations in this guideline
10 coming from us, but they could be requirements
11 depending on the state or local authorities that
12 are applying the Food Code.

13 So I'll just very briefly cover some of
14 the recommendations from the guideline. I won't
15 go through all of them, you have that information,
16 also there's most of this presentation on the
17 results from our pilot project that we have so far.

18 But some of the most important findings
19 were in the product handling area. And the risk
20 assessment found that if deli products are
21 formulated with antimicrobial agents, and those
22 are preservatives like acetic acid or lactic acid

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1 or even something as simple as vinegar, then that
2 has a significant impact on the risk of illness from
3 the product.

4 So the risk of illness can be decreased
5 by 96 percent, and that was the most significant
6 finding from the risk assessment.

7 We also recommend promptly returning
8 ready-to-eat products to the refrigerated cases
9 after they're handled, because as long as those
10 deli cases are kept at 41 degrees and below that
11 will slow the growth of Lm.

12 So that was another significant finding
13 from the risk assessment. That's one thing we've
14 seen, you know, possibly deli cases that aren't
15 maintained at 41 degrees, some states even allow
16 45 degrees, there's a lot of variation there.

17 And the key to Listeria control and
18 you'll hear me say this again, is
19 cross-contamination control, keeping Listeria
20 from getting on the product, and then if it's there
21 on the product keeping it from growing, because
22 it's the higher levels of Listeria that most often

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1 cause illness.

2 So those are the two key components, the
3 cross-contamination and the growing. And so these
4 two product handling guidelines are there to
5 control the growth of Lm.

6 We also have several that are focused
7 on controlling the cross-contamination, and those
8 are in the cleaning and sanitizing
9 recommendations. And we recommend that retailers
10 develop written sanitation procedures that
11 describe how their equipment including those
12 slicers will be cleaned and sanitized prior to use.

13 The Food Code recommends that those be
14 cleaned every four hours, and the risk assessment
15 showed that that was an effective level of
16 cleaning.

17 We also recommend that unsanitary
18 conditions are controlled so that mold and other
19 dirty surfaces aren't present that could lead to
20 cross-contamination, and that construction isn't
21 performed during the slicing of these products.

22 Listeria can hide down into the dust and

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1 the grout in the tiles on the floor and then back
2 behind the walls, survive for many, many years. So
3 it's important that retailers also realize that
4 they shouldn't be like ripping up floors or doing
5 something else to cause dust to come in.

6 That should be minimized as much as
7 possible during when the product is being sliced
8 so that Listeria doesn't cross contaminate into it.

9 So the facility and equipment controls
10 are important. In the retail area you've got a big
11 potential for raw products and ready-to-eat
12 products to come in close proximity to each other.

13 I'm thinking of an example where you
14 could have a rotisserie chicken being cooked in the
15 same area where you've got deli meat being sliced.

16 So bringing in those raw products or the
17 raw ground beef in the same area as the
18 ready-to-eat, sometimes in the same deli case, that
19 could cause aerosolization of the Listeria, the air
20 blowing across it, and cross-contamination by
21 employees not changing gloves in between handling
22 raw products. So there's a lot of issues that can

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1 lead to that cross-contamination.

2 The employees also play a big role in
3 protecting the product, so we recommend that
4 employees wear gloves. That's not a requirement
5 in every state or locality, although it is
6 recommended by the Food Code.

7 Also training, training is a very
8 important recommendation, and providing the
9 adequate facilities for hand washing. Some things
10 that we've seen across the board have been, you
11 know, tools in a hand wash sink, for example.

12 You'll see some examples of these when
13 we further go over the results of the pilot we're
14 performing. So it's important to make sure
15 there's separate hand wash sinks which is a Food
16 Code recommendation.

17 So many of these you'll see are not
18 new. They do, as I say, come from the Food Code.
19 It's just making sure that they're applied at
20 retail, and the documenting we think is very
21 important that these are occurring.

22 Okay, so now I'll switch gears a bit and

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1 talk about the pilot projects that we've been
2 working on. And the purpose of this pilot project
3 was to assess whether retailers are aware of the
4 guidelines and they're following them at retail.

5 So currently we have data from a
6 pre-pilot that we performed the week of December
7 8th through 15th, where we went to 16
8 establishments nationwide. Our office of
9 Investigations, Enforcement, and Audit -- I saw
10 Carl sitting back there. His investigators went
11 out to the retail facilities to start performing
12 this evaluation. So we have some
13 preliminary data from our findings so far. So we
14 found that -- what I should say is that the
15 compliance investigators are using a questionnaire
16 to gather data to see whether the retailers are
17 following the guidelines that I just went over, and
18 so we'll talk about what those questions were and
19 what the results were in the following slides.

20 So from just those 16 establishments we
21 found that a higher percent of the recommendations
22 for facility and equipment controls were being

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1 followed. So pretty, you know, most retailers
2 were following most of the recommendations for the
3 facility and equipment controls.

4 We saw that a lower percentage were
5 following the recommendations for the product
6 handling and cleaning and sanitizing, but still
7 more retailers were following them than were not.
8 We had about 65 and 63 percent of those
9 recommendations being followed.

10 So that shows us that we need to do some
11 more work and outreach, and we're looking at
12 additional next steps that we could take based on
13 this information.

14 We'll also look to see if these findings
15 are carried out through the main pilot where we're
16 looking at many, many more retail facilities than
17 the 16 we initially looked at. So here are
18 some of the data from the pre-pilot project. As
19 you can see, we have the questions laid out here.
20 These are the first part of the product handling
21 questions.

22 But it's color coded, so the green bars

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1 represent the retailers that followed the
2 recommendations, and the pink bars are the
3 recommendations that were not as likely to be
4 followed.

5 So you could quickly look across and as
6 you can see, most of them were being followed on
7 a first glance. Not applicable is in yellow.

8 And so since some of the questions, the
9 answers to the questions were yes and the ideal
10 answer was yes and some were no, this just makes
11 it a little easier to follow.

12 I won't go through every one of these.
13 You can go through and look at them when you're
14 evaluating this information and I hope you do. But
15 I'll just point out a few.

16 On this first slide, Number 2, this
17 question was, is physically adulterated product
18 present in the area? And luckily it was a hundred
19 percent no. So that was great news.

20 We also looked at Question Number 5
21 where did you observe any opened, ready-to-eat meat
22 or poultry product that isn't date marked, and we

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1 got about 50/50 there.

2 And date marking is a recommendation in
3 the Food Code, and that is important for Listeria
4 control because the longer the product is kept in
5 the deli case, the longer you have for Listeria to
6 grow at those refrigeration temperatures. So that
7 was a finding that we're looking more closely at.

8 Question 7, does the deli have records
9 to document temperature of deli cases? And in more
10 cases the answer was no, about 56 percent, than yes.
11 So records might be another area where we would need
12 to focus.

13 So looking at this next slide, these are
14 also product handling questions. We looked
15 specifically at Question 9. Are all opened,
16 ready-to-eat meat or poultry products covered or
17 wrapped or otherwise protected to prevent
18 cross-contamination? And that's another one
19 where we saw about 50/50.

20 Question 11. Are the deli
21 ready-to-eat meat or poultry products formulated
22 within antimicrobial agents? So about 70 percent

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1 yes, but about 30 percent no. And that as I said
2 was one of the significant findings of the risk
3 assessment.

4 So the next slide provides the
5 responses to the cleaning and sanitizing
6 questions. And we saw Number 14, does the deli
7 have written procedures for cleaning? And in most
8 cases the answer was no.

9 Question 16, is the ready-to-eat
10 equipment, including slicers, cleaned and
11 sanitized every four hours? In most cases, yes,
12 but in about 30 percent of the cases the answer was
13 no.

14 And then 17. Are there records to
15 verify the equipment is cleaned every four hours?
16 And in about 75 percent there were not records to
17 show that.

18 The next slide continues the cleaning
19 and sanitizing questions. Question 21 was, are
20 sanitizer types rotated periodically? In most
21 cases they were not. That one can be help keep
22 Listeria from developing resistance from

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1 sanitizers.

2 We saw that many of the federally
3 inspected establishments use that practice, but
4 currently it's not happening at retail.

5 Question 23, did you observe the
6 ready-to-eat area being cleaned with a high
7 pressure hose? And in most cases that was no, so
8 that was a good thing.

9 That's something that we see quite
10 often happening in federally inspected
11 establishments. They take a hose out there and
12 spray down the equipment that causes Listeria to
13 aerosolize and then land on most other things and
14 lead to cross-contamination. So that was
15 something that wasn't occurring as much in the
16 retail deli.

17 Moving on to the next slide, these are
18 the results for the facility. In most cases, as
19 I said previously, the recommendations were met,
20 so that was good news for these particular
21 questions.

22 And those are again are, are there

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1 standing water? Are there issues with the ceiling
2 where condensation is dripping down? Is the
3 equipment in good repair? So we've got yes for
4 most of those, so that was good.

5 And then also for the employee
6 practices most of the time those were followed. So
7 it sounds like in most retail delis, at least in
8 the small group that we looked at, the employees
9 were wearing gloves, changing their aprons as often
10 as necessary. Foot traffic was limited to keep
11 cross-contamination from occurring. That sort of
12 thing.

13 So here's some summary data looking at
14 the states that we looked at for this pre-pilot.
15 Again as you can see, over in the left hand column
16 we looked at very few retailers for this initial
17 pre-pilot, so only one or two per state.

18 So it's hard to say how much emphasis to put
19 on this data, but there were differences in the
20 percent of the recommendations that were followed
21 for a specific state. We saw some states with
22 lower percentages of the recommendations that were

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1 followed.

2 So that could be linked to Food Code
3 adoption in those specific states. We'd have to
4 look further into that. We'll have to see if this
5 is carried out too during the nationwide pilot.

6 This table shows a breakdown of the data
7 by the type of retail firm. We looked at firms that
8 were part of local or regional chains so that were
9 more likely to be the bigger grocery store, and then
10 also independently owned and operated stores more
11 like the mom and pops, and then the ethnic markets,
12 the two of those.

13 So the column in yellow is the followed,
14 so you can look across there, and in most cases the
15 local regional chains were more likely to follow
16 the recommendations than the independent stores,
17 and then the ethnic markets. So some of
18 the observations from the pilot study, we saw
19 disposal towels used for drying employee hands only
20 when coming into or leaving the deli area.

21 They had a hand washing sink but tools
22 were being stored into it. I mentioned that one

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1 earlier. Employee traveled from the ready-to-eat
2 to the raw area without changing or washing hands.

3 Facility uses a slicer for all their
4 slicing needs including cutting vegetables, then
5 they wiped it down but didn't use sanitizer. So
6 these are just some examples that we saw.

7 Reusable cloths being used for a variety of
8 products throughout the deli area and not being
9 rinsed or sanitized could lead to
10 cross-contamination.

11 One product was observed in the deli
12 case with the sell-by date of November, but this
13 was performed in December so it was outside its
14 sell-by date.

15 Sink located in another adjacent room,
16 so it may not have been available right in the
17 location for employees to wash their hands.
18 Disposal gloves were available but not being used.

19 Some employees who handled raw products
20 also handled ready-to-eat products. In one case
21 records were kept by the facility but then they were
22 discarded at the end of the week. So

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1 based on the results from this pre-pilot we did
2 start our nationwide pilot. The nationwide pilot
3 started January 25th. We announced this
4 nationwide pilot in this notice. We provided the
5 link here. And so this pilot is to measure the
6 status of their voluntary adoption of these
7 guidelines.

8 We are not performing sampling during
9 this pilot. We anticipate that it will last about
10 a year while we gather and assess the data, and then
11 we can use the information to determine what best
12 next steps we can take to protect public health
13 based on the results that we're getting from the
14 pilot.

15 So far we visited, in January and
16 February we visited about a hundred retail
17 facilities as part of it, and we have seen some
18 improvements which is good.

19 We've seen some of those percentages
20 that I shared with you earlier increase. So we
21 already feel like we're getting the word out and
22 seeing some improvements in actions that the

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1 retailers are taking.

2 As part of the pilot, the compliance
3 investigators distribute a brochure to the
4 retailers. It's sort of a Cliff Notes version of
5 the guideline to make sure that they're following
6 the steps for Listeria control, and a copy of that's
7 available out on the little table if you'd like to
8 see that.

9 So that leads me to the questions that
10 we have for you. Basically our question is, what
11 are your recommendations for steps that we should
12 take to ensure better control at retail?

13 Should we consider additional outreach
14 to retail stores? If so, what sort of outreach
15 should we be doing? What topics should we be
16 considering?

17 If you don't have any recommendations
18 on specific topics, do you have recommendations of
19 where we could get the information to further
20 develop our outreach?

21 Also, we're asking for your input on
22 whether we should rely on regulation, state

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1 personnel, the Food Code, or some other means to
2 affect these recommendations.

3 We have a variety of resources
4 available to us. We share jurisdiction with FDA
5 and the state and local health departments, so how
6 can we work best to affect these recommendations?

7 Should we work with FDA and the states
8 to make changes to the Food Code requiring
9 sanitizing and temperature control records? We
10 saw that many retailers currently weren't keeping
11 those records at least in the pre-pilot. Should
12 we require certain actions by retail stores through
13 regulations?

14 So here's some examples of specific
15 actions we've discussed, such as keeping those
16 sanitization records, demonstrating that the
17 slicers and other equipment are cleaned every four
18 hours as recommended in the Food Code.

19 Keeping records to demonstrate that the deli
20 cases are below 41 degrees to control
21 cross-contamination, the first one is to control
22 the cross-contamination and the second one is to

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1 control the growth of Listeria.

2 Are there any other considerations,
3 such as cross-contamination due to air flow and
4 aerosolization from the raw product to the
5 ready-to-eat? So do you have any questions?

6 MR. PAYNE: This is Keith Payne here.
7 Just as a reminder, state your name and affiliation
8 when you ask your question.

9 MR. PAINTER: Stan Painter with the
10 National Joint Council. Has the agency looked at
11 or thought about the use of fans in processing
12 areas, fully cooked areas, for the control of
13 condensation, and are we controlling condensation
14 with the risk of spreading Listeria?

15 MS. BARLOW: So thank you. I think
16 that's a really good question, because certainly
17 Listeria could be found in the condensation that's
18 on the overhead ceilings, and when that air
19 conditioning comes on when it's hot in the
20 summertime and you see the droplets of water.

21 And we've seen this happen in quite a lot in
22 food processing establishments when it comes and

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1 drips down onto the product, and the fear is that
2 the product can become contaminated through that
3 condensation.

4 So it's something that we would
5 certainly look for as part of the sanitization at
6 retail. Fans can also spread the contamination
7 and I'm sure that, you know, there's the
8 possibility of having the fans running also in the
9 retail area.

10 So I think, you know, Stan brings up a
11 really good point. There are those lessons
12 learned from what's happening in establishments
13 where we, you know, worked for years to manage that.
14 It's the condensation and the fans, and that's
15 something that we're still struggling with that we
16 can also see, you know, if that same issue is
17 occurring at retail.

18 MEMBER ROBERTS: Tanya Roberts from
19 CFI. I'm confused as to how much overlap there is
20 between the Food Code and the guidance, because in
21 a number of points you said, well, it wasn't in this
22 particular state's adoption of the Food Code.

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1 So I guess the question is, is one of
2 the problems that -- is the major problem that the
3 states aren't adopting what's already in the Food
4 Code, or is the major problem that there's more in
5 the FSIS guidance than there is currently in the
6 model Food Code?

7 MS. BARLOW: And then I think that's a
8 really good question too. It's a combination of
9 things, really. Of course the Food Code adoption
10 is voluntary.

11 MEMBER ROBERTS: Right.

12 MS. BARLOW: Those states decide
13 whether to adopt it, whether to adopt the most
14 recent version, whether to adopt certain parts of
15 it.

16 So right now we don't have a really good
17 handle on specifically what parts, what states have
18 adopted. And I hear, you know, that AFDO and
19 others are looking into that and seeing how we can
20 get clearer information on that.

21 And then there are some recommendations
22 that aren't currently part of the Food Code, like

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1 the antimicrobial one is the big one that I think
2 of right now.

3 And so at the same time, you know, and
4 there could be reasons why stores might want to
5 adopt that and maybe not. You know, there's
6 natural products out there. People don't want a
7 whole bunch of preservatives always in their
8 products.

9 So we're looking, discussing at ways,
10 you know, with the Conference for Food Protection,
11 it's also working on a Listeria guideline, and
12 working with our state and local health partners
13 to see what's the best way to address these.

14 And there's no easy blanket answers
15 unfortunately. You know, we have to work through
16 the process and as always a way, you know, what's
17 going to be important for the retailer and then what
18 parts need to happen to best protect public health.

19 Randy?

20 MEMBER PHEBUS: Randy Phebus from
21 Kansas State University. Just for clarification,
22 who put together this, the best practices guideline

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1 document and how was it vetted and reviewed?

2 MS. BARLOW: Well, we had a committee,
3 a group of employees across the agency. It was
4 developed within FSIS and we worked with our office
5 of compliance, specifically OPHS, to look at the
6 risk assessment and the impacts on listeriosis
7 risk, and also with our Office of Field Operations
8 from the lessons learned from Listeria.

9 So it was an agency-wide effort. We
10 did seek input from our partners at FDA and CDC.
11 And as I said, it was based on a joint risk
12 assessment that we performed with FSIS, FDA and
13 CDC.

14 And the guidance document was issued
15 out for a public comment, so when we received
16 comments from the public we received several from
17 retailers who we, you know, updated, revised the
18 document to reflect those.

19 MEMBER PHEBUS: So what's the process
20 for updating or the plans for updating the guidance
21 document? Is that a major effort or can it be
22 updated?

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1 MS. BARLOW: Oh, yes. All of our
2 guidance documents are works in progress. So
3 certainly we've got this pilot project underway.
4 We will update the guidance document based on
5 information from we receive, and I say we will do
6 that.

7 Just from our initial pre-pilot we saw
8 that some further information might be needed
9 specifically on the product handling and
10 sanitization, so we plan to bulk up those areas and
11 make sure that it's understandable and easy to
12 follow at the same time.

13 MEMBER PHEBUS: Just a quick review of
14 the self-assessment portion of it, there's
15 virtually nothing mentioned about drains and how
16 to handle or place or sanitize drains and we all
17 know that's a very high risk aspect of Listeria
18 control.

19 MS. BARLOW: Yes, I agree. That would
20 be a good one to look at in our further revisions.

21 MEMBER HARVEY: Sherika Harvey,
22 Mississippi Department of Agriculture. You

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1 mentioned that in the pre-pilot, in the pilot, a
2 group observed the retailers. And I'm assuming
3 that the retailers had pre-knowledge of the group
4 coming in, is that correct?

5 MS. BARLOW: No, this is performed as
6 part of our FSIS surveillance activities. As part
7 of those we do not provide advance notice to
8 retailers as part of our routine surveillance.

9 This is something that FSIS has been
10 doing for years, going into retail establishments.
11 It's now become a higher focus for us based on the
12 results from the risk assessment.

13 So previously, retailers were at a tier
14 3 status and most of FSIS efforts were focused on
15 warehouses and other areas where we don't have as
16 much regulatory oversight from other agencies.
17 And we've now moved those up to a tier 2.

18 So we are focusing on retail more and
19 our compliance investigators go into retail as part
20 of their surveillance activities and they look for
21 lots of things like grinding logs.

22 They look at that under our new

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1 regulation, and also whether the mark of inspection
2 has been applied properly to meat and poultry
3 products. And they've now added looking into the
4 deli for the use control mechanisms more on top of
5 that.

6 So as part of that process the
7 compliance investigators go to the retail
8 facility, they tell the store manager that they're
9 there, and then they go to the retail area.

10 MEMBER HARVEY: Okay, great. Thank
11 you.

12 MR. PAYNE: Just so we don't get too far
13 behind, let's go to Betsy Booren, and then Dustin
14 Oedekoven, Michael Crupain, and John Marcy.

15 MEMBER BOOREN: Thanks, and I've got
16 two questions and one of them I think we'll need
17 more information for the subgroup. The first one
18 is -- oh, Betsy Booren, Meat Institute. Thanks.

19 Follows up on Ms. Harvey's question,
20 this was an observation study, correct? Some of
21 the questions that you have data on appears that
22 they engaged with the employees?

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1 For instance, Question Number 21, are
2 sanitizer types rotated periodically? How are you
3 sure that the data you're being collected, you're
4 talking to the right personnel?

5 I mean, it's supposed to be an
6 observation, but clearly you've had some level of
7 engagement in a series of these questions. And if
8 you're asking perhaps an employee who may not have
9 the notice of that then these results don't
10 accurately reflect it, but more importantly your
11 larger pilot. So that would be one thing.

12 The other aspect is what exactly does
13 FSIS have jurisdiction in, legally, at the retail?
14 And I think having a summary of that or the CFR
15 regulations for the subgroup as we're considering
16 your recommendations would be very useful.

17 And I don't expect you to answer that
18 now, but I think if we could get that for this
19 afternoon that would be helpful.

20 MS. BARLOW: Okay. Yes. I mean, we
21 can get that information certainly for you.

22 I mean, for surveillance as part of

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1 their duties they're mostly focusing on
2 observations. But the compliance investigators
3 can ask the retailers or someone any questions.

4 Now they've been instructed as part of
5 their training and the notice to try and limit that
6 as much as possible, but they do have the ability
7 as part of any surveillance activity to interact
8 with the retailers.

9 So they can ask them questions about
10 that. They're instructed to work with the deli
11 manager or the store manager, but also as part of
12 their training if they can't observe something or
13 they aren't able to ask then they're supposed to
14 put N/A. So we have taken that into account, but
15 we'll continue to think about that also.

16 And as far as a regulatory authority,
17 according the meat and poultry inspection acts we
18 do have the authority to ensure that meat and
19 poultry products are safe until they reach the
20 consumer.

21 So our focus has been historically on
22 the food processing establishments, although as I

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1 said we have had our compliance investigators go
2 into warehouses and retail and other facilities,
3 so we have the ability to do that.

4 But we haven't typically focused on
5 those areas because we haven't had the science in
6 the past to tell us that we should be doing so. So
7 it is a new focus for us, but we do have the
8 regulatory authority as I said to ensure that our
9 products are safe until the consumer consumes them.

10 MEMBER OEDEKOVEN: Good morning.
11 Dustin Oedekoven, South Dakota Animal Industry
12 Board.

13 And kind of along those lines, my
14 question was kind of related to one of the questions
15 that was posed to the committee is, should FSIS
16 consider additional outreach to retail stores?

17 And I wondered if you could describe
18 somewhat the interaction and the outreach that FSIS
19 currently has with retail establishments.

20 MS. BARLOW: Well, we've got, what we
21 have right now is we have the guidelines. We've
22 given those presentations now at several meetings.

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1 I can't count them all.

2 You know, over the last few years since
3 we have had this information available, we've made
4 them available for public comment as I said.

5 Our compliance investigators as part of
6 their job duties do outreach. So their job duties
7 are described in the directive. It was one of the
8 links that I provided. If not, I'll get that to
9 you.

10 And part of their job is to do the
11 surveillance, but another big job is to do the
12 outreach, so when they're out there they're talking
13 to the retailers. And if they do see some
14 vulnerabilities during their assessment then
15 they'll share that information with the retailer.

16 And we also recently developed a
17 brochure that I mentioned. We've now got that in
18 a couple of languages, I think, so that's something
19 we're further working on. But there may be
20 additional avenues that are open to us that we
21 haven't considered yet.

22 I think, Jeff, you --

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1 CDR TARRANT: Yes, I was just going to
2 add to that. We, the agency has also conducted two
3 different webinars. One to the -- hi, Jeff
4 Tarrant.

5 Yes, the agency has also conducted two
6 different webinars back in January and December,
7 one to our public health partners at the state level
8 and another one to food safety professionals that
9 worked at mostly grocery store chains, retail like
10 7-Eleven, Publix, Kroger's, where they came on for
11 a big webinar, and we were asking them to
12 disseminate the information along their various
13 associations and lines that way too.

14 MS. BARLOW: We've also been working
15 with FDA. I recently attended two of their
16 meetings with the restaurant partnership and the
17 retail foods partnership to present this
18 information.

19 But there are certainly other avenues
20 that we could look at, so we appreciate your input
21 on those.

22 MR. PAYNE: Mr. Crupain?

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1 MEMBER CRUPAIN: So Michael Crupain
2 from the Dr. Oz Show. I think obviously handling
3 and sanitation seems really important, but I'm
4 curious.

5 On your first slide you say the positive
6 rate from FSIS inspected products is low, but is
7 that still ultimately the source of this Listeria,
8 the meat that's coming out of the inspected plants,
9 or do you think it's coming from somewhere else?

10 MS. BARLOW: Well, I think that's
11 something that we don't know at this point. It
12 could very well be that that low level of
13 contamination could be bringing in some Listeria
14 that's getting into the deli area.

15 But generally the science of Listeria
16 is that it's going to be found down in the drains
17 or in the environment. It's a soil-borne
18 organism, really, so it lives in the dirt, survives
19 in the summer and the winter. It comes in on
20 people's shoes, on carts, you know, like I said it
21 could up in the ceiling.

22 So it's really hard to pinpoint an exact

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1 source. With that low percentage there could be
2 some coming in on the product, but when research
3 that has been performed shows Listeria all over in
4 the retail deli and it forms biofilms, which are
5 like plaque bacteria on your teeth and they're
6 really hard to remove once they get down into the
7 deli area and anywhere, really. So
8 part of it is the constant cleaning and really
9 scrubbing to get rid of it once it gets into the
10 facility. It can be in there, we've seen
11 Listeria survive 10, 20 years once it gets in.

12 So the answer is it could be a lot of
13 sources, but yes, that could be one. But as I said
14 we've seen the levels go way down with the efforts
15 that industry has made and the policies that have
16 been put in place, but we haven't seen the illness
17 of this taper off.

18 MR. PAYNE: Okay, we have Dr. Marcy,
19 and then one final question or comment from Dr.
20 Singh before we move on to our next issue.

21 MEMBER MARCY: John Marcy, University
22 of Arkansas. Just two clarifications on the CDC

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1 data, the 0.24 per 100,000, it states that it
2 plateaued. Was it going up or going down when it
3 plateaued? Do you know?

4 MS. BARLOW: I mean, I think it's sort
5 of leveled off, but we'll get that information for
6 you. I think we've got more recent --

7 MEMBER MARCY: Yes, and the second
8 clarification has to do with, I think there's a
9 statement in there that none of the places that you
10 observed were familiar with your guidelines before
11 you observed them.

12 So when you talk about the follows data
13 later, they're either following or not following
14 that's happenstance, because they weren't familiar
15 with your guidelines before
16 you --

17 MS. BARLOW: Yes, so that's one of the
18 things that we saw. So we're trying to -- that
19 tells us we need to continue that outreach. You
20 know, since many of those recommendations are
21 already in the Food Code, I think, you know, that's
22 one reason that they were being followed.

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1 But we'd had the guidelines for about two
2 years at that point, and so that just shows us that
3 we continue that outreach. And I think they're
4 getting more and more familiar with it as we
5 continue to give these presentations and we're
6 doing the nationwide pilot.

7 MEMBER SINGH: Manpreet Singh, Purdue
8 University. Actually, there's two parts to this.
9 One was, in your pilot you had all these retailers
10 around the country. Was there a basis of how you
11 selected those retailers around the country or how
12 their area was divided?

13 And the second one is, I know you said
14 a follow up to what Betsy had just mentioned that
15 there was a fair level of engagement with the
16 personnel in the retail, so at what level was that
17 engagement? Was it the food safety professional
18 or was it the employee actually performing the
19 task?

20 MS. BARLOW: Carl, would you? Is Carl
21 back there, still?

22 MR. MAYS: Hi, I am Carl Mays with the

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1 Office of Investigation, Enforcement, and Audit.
2 When we go out to the retail delis it's just a normal
3 surveillance we do, so we don't target any
4 particular group.

5 We're broken up into four regions
6 around the United States, so within that region all
7 the investigators look at different places. So
8 it's not, you know, mom and pop or big retail, they
9 go to different places. That's what they're told
10 to do.

11 The second question I didn't hear.

12 MEMBER SINGH: The second part for that
13 -- this is Manpreet Singh again from Purdue
14 University. The second part was when you had a,
15 whatever level of engagement you had with the
16 personnel at the retail level, was it with the food
17 safety professional responsible for food safety
18 within the retail facility or was it with the person
19 actually involved in performing the task?

20 MR. MAYS: So normally what we do is
21 when we go in we contact the store manager and then
22 we go to the deli area. We tell the store manager

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1 and the deli manager that they don't have to be
2 present, but most of the time they will follow the
3 investigators through the whole process to see
4 what's going on.

5 We observe most of the time. Sometimes
6 we do talk to the people, you know, especially if
7 we're talking about cleaning or something like that
8 and we ask questions like do you have cleaning logs
9 and stuff like that.

10 So it's kind of a combination but most
11 of it's observation, so we're not actually asking
12 the person in charge. If you're doing something,
13 we're observing it.

14 MR. PAYNE: Okay. Thank you, Ms.
15 Barlow for that thorough overview of the first
16 issue for this committee.

17 We'll move on now to the overview of the
18 second issue for this committee to consider and
19 that's the consideration of mandatory labeling
20 features for certain processed, not ready-to-eat
21 meat and poultry products.

22 And we have Mr. Mark Wheeler who is with

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1 the labeling and program delivery staff. Mr.
2 Wheeler?

3 MR. WHEELER: Thank you, and good
4 morning to everyone. I'm going to be talking about
5 the considerations in mandatory labeling features
6 for certain processed, not ready-to-eat meat and
7 poultry products.

8 We'll be going over some background
9 information such as what is the ready-to-eat
10 product, and then talking about some of the recalls
11 that we've had recently regarding not ready-to-eat
12 products.

13 We'll talk about some issues of
14 concern, and then I'll pose the questions to the
15 National Advisory Committee.

16 One of the things, you know, to start
17 this discussion we need to lay the groundwork for
18 what is a ready-to-eat product. So determining
19 what a ready-to-eat product is some products are
20 defined by the standards in the regulations as
21 ready-to-eat products.

22 Other products are expected by the

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1 consumers to be ready-to-eat, and some products may
2 not be ready-to-eat, or they may be ready-to-eat.
3 It just depends on certain features that are in
4 processing that takes place, and the labeling
5 features that how the product may be labeled.

6 Did this slide move? Wait a second, I
7 think I just talked about this.

8 And so a ready-to-eat product is a meat
9 or poultry product that's in the form that is edible
10 without additional preparation to achieve safety.

11 That the product may have additional
12 preparation, but that preparation is to make it
13 taste better or to make it look better, but it's
14 not a safety requirement. These can include both
15 frozen meat and poultry products.

16 And so by defining a ready-to-eat
17 product is not going to typically have the safe
18 handling instructions as required by the
19 regulations 317.2 with 381.125.

20 Additionally, a ready-to-eat product
21 is not going to have cooking instructions on it.
22 It may have heating instructions, but they're not,

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1 you know, so there's a distinction there between
2 the heating instructions and cooking instructions.

3 And so in many cases, the ready-to-eat
4 product labeling is guided by various factors, and
5 so now we're going to look at some examples of
6 labels. And this is what I just talked about is
7 that, you know, your standard of identity for a
8 product. It's either going to be standardized by
9 the regulations or the standard in the food policy
10 book.

11 And so for this label is a hot dog, it's
12 a beef frank, and the regulations 319.180 defines
13 a frankfurter or a hot dog or wiener as a
14 ready-to-eat product.

15 And this label is a French liver pate,
16 and its consumer expectations, in the long term
17 production practice, is pates are understood to be
18 ready-to-eat products.

19 This product here is based on the
20 labeling features. You have nutrition facts is
21 based on eight pieces, 140 grams, which is the ready
22 to be served RACC, or Reference Amount Customarily

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1 Consumed by the consumers. And so based on the
2 labeling features here, these egg rolls are
3 ready-to-eat product.

4 And this product here, it's, I forget
5 what it, I think it's meatballs. But it has
6 description on the principal display panel
7 indicating that it's simply heat and serve for, you
8 know, from dinners.

9 Other examples of the terms on the
10 principal display panel would be heat and serve or
11 ready-to-eat and that's indicating that the
12 product is ready-to-eat.

13 Other information would be heating
14 instructions, as I commented earlier, rather than
15 cooking instructions. It might tell somebody to
16 cook or warm it in the microwave or heat it in the
17 oven.

18 However, if an establishment produces
19 a meat or poultry product that is not commonly
20 understood to be by the consumers to be a
21 ready-to-eat product, for example, meatballs or a
22 soup or chili or corned beef hash, or if there is

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1 no product standard for the particular product that
2 it be ready-to-eat, then the establishment can
3 decide to send the product into commerce as a not
4 ready-to-eat product even though it was previously
5 prepared as a ready-to-eat product.

6 And if the plant chooses to classify their
7 previous product as not ready-to-eat, then they
8 must provide assurances through the manufacturing
9 practice, their sanitation practices, and validate
10 the cooking instructions that the product will be
11 safe for consumption. Then FSIS would
12 expect the company's hazard analysis, their HACCP
13 plan to support the contention that the product is
14 not ready-to-eat, such that they have not
15 identified a biological hazard like salmonella, E.
16 coli, Listeria, or staph as hazards reasonably
17 likely to occur that are eliminated by a subsequent
18 heating step. Consequently, the
19 process, the hazard analysis, the HACCP plan, and
20 the decision making documents should be consistent
21 with the manner the company chooses to label and
22 market their product.

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1 This is a particular concern for
2 products that appear ready-to-eat but are not
3 ready-to-eat. Thus, the label must clearly
4 indicate to the consumer that a product is not
5 ready-to-eat and must be fully cooked prior to
6 eating.

7 Such features include a statement on
8 the principal display panel that the product needs
9 to be cooked, for example, cooked thoroughly, cook
10 and serve. They might have safe handling
11 instructions on the product.

12 The nutrition would be based on a
13 ready-to-cook reference amount and the product
14 would have cooking instructions. The cooking
15 instructions must not be misleading and be
16 adequately, reflect practical instructions
17 related to the proper use, cooking and handling of
18 the product.

19 Now we're going to talk about some focus
20 group studies that the agency contracted with. We
21 went with RTI to conduct focus groups to evaluate
22 the consumers' understanding of several labeling

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1 features, including the safe handling of meat and
2 poultry and egg products including the preparation
3 instructions, but these products were not
4 ready-to-eat. And we also looked at the safe
5 cooking instructions for raw meat product.

6 RTI conducted 11 focus groups in five
7 locations throughout the United States. These
8 included the general population and at-risk
9 populations.

10 A total of 86 people participated in the
11 groups, and the published document is titled,
12 Consumer Research Assessing the Effectiveness and
13 Application of Public Health Messages Affecting
14 Consumer Behavior Regarding Food Safety.

15 The findings found that consumers are
16 increasingly relying on prepared meat and poultry
17 products because they are convenient, quick and
18 easy. These recent food outbreaks suggest that
19 some consumers are not properly preparing these
20 products to ensure that the products are safe to
21 eat.

22 There appears to be confusion as to

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1 whether frozen meat and poultry products are
2 ready-to-eat or not ready-to-eat, and participants
3 did not distinguish between different brands and
4 products unless you have this, you've got people
5 relying on past experience to prepare a product.

6 And so if they're always cooking
7 something and throwing something in the microwave
8 for two minutes, they continue to do that
9 regardless of what brand it is and what the
10 instructions may say on the label.

11 Some participants consider all frozen
12 items to be ready-to-eat, and thus not ready-to-eat
13 products may not be properly prepared. Most
14 participants did not know the wattage of their
15 microwave and thus did not make adjustments for the
16 cooking time. They did not use meat thermometers
17 and relied on past experience, and most consumers
18 or participants were confused about the purpose of
19 a rest time.

20 Thus, a lot of people, they thought
21 that reading the preparation instructions, they
22 believed the instructions were important but they

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1 didn't believe that these were requirements. They
2 just thought that preparation instructions were
3 something to make the, properly prepare the product
4 so you get the best quality product.

5 I'll just back up a minute. And the same
6 thing goes with the purpose of the rest time.
7 People really didn't understand what the purpose
8 of the rest time was.

9 They thought, you know, various ideas
10 about, you know, why somebody would let it rest,
11 and thus if they're in a hurry they're going to pull
12 it out of the oven and start slicing it up.

13 And during this study they offered, RTI
14 offered people icons. And they found this icon
15 here, pictured here, and it's got -- I think it
16 moved a little. At least on my screen it moved.

17 That this shows an icon and it states,
18 raw chicken-do not microwave, and it shows a
19 picture of it. And most people found that icon to
20 be clear and to the point and understandable.

21 The reason for the concern is that in 2006
22 there was a recall of stuffed poultry products

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1 linked to salmonella, and then in 2007 there was
2 another recall for pot pies linked with salmonella
3 and this included both meat pies and poultry
4 product.

5 And in 2010, there was again a recall
6 for chicken and rice dinners linked with
7 salmonella. And so the concern is not
8 specifically with the stuffed poultry that's
9 gotten a lot of headlines, and I'll show it in the
10 next slide. It's a couple of different types of
11 products here that this problem is occurring.

12 Following the 2006 recall, FSIS sent a letter
13 to the industry, particularly the industry that's
14 making the stuffed poultry products, the Chicken
15 Kiev, or broccoli stuffed chicken breasts.

16 And they had the statement. They
17 suggested that these products bear the statement
18 of uncooked, for safety cook to an internal
19 temperature of 165 as measured by the use of a
20 thermometer.

21 And so this is a product label from one
22 of the products that it's recalled, and you see it's

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1 the chicken breasts stuffed with broccoli and Swiss
2 cheese. And it has an example of that icon that
3 we previously saw, and it also has the statement
4 that the agency recommended for these products that
5 it's raw product and has a minimum internal
6 temperature.

7 And this is the cooking instructions
8 that were on the back of that chain or product, and
9 so again it's telling people not to microwave it,
10 telling the consumer to put it into the oven at 400
11 degrees and bake for 25 to 30 minutes. And in spite
12 of all this information there was still illnesses.

13 And so there's no, you know, in the
14 regulations there's nothing specific in the
15 regulations to require a manufacturer to label
16 their product as raw, to label their product as
17 uncooked or not ready-to-eat. And thus you have
18 the following product, and I'll show you three more
19 labels.

20 This is a veal steak. It's chopped and
21 formed and it's breaded, and possibly the breading
22 has been sitting in vegetable oil. So the product

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1 is raw, but the exterior may look like it's a
2 ready-to-eat product. But there's nothing on this
3 label to indicate the product is not ready-to-eat
4 and needs to be cooked.

5 This is a bone-in ham, and again this
6 product is a raw product and there's nothing on the
7 front, the principal display panel, to indicate
8 that. It says keep refrigerated, but it doesn't
9 say that it's raw, it doesn't say that it's not
10 cooked.

11 And this is a label for herbed Parmesan
12 breaded chicken scallops. Again, a raw product.
13 There's not anything again on here saying the
14 product's not cooked.

15 And so then the charge that we would
16 like to ask the committee is should FSIS require
17 statements such as raw, uncooked, ready to cook on
18 the labels of raw poultry, or raw product that may
19 appear to be ready-to-eat to convey to these
20 products are not ready-to-eat?

21 Additionally, should FSIS require that
22 such products bear validated cooking instructions?

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1 And if so, aside from the method of cooking, an
2 endpoint temperature of 165 and instructions to use
3 a thermometer, what other information is needed?
4 And finally, are there other steps that FSIS should
5 consider requiring to prevent illnesses involving
6 these types of products?

7 And that's -- any questions from the
8 committee?

9 MR. PAYNE: Okay. I see ten cards
10 going up. First we have Tanya Roberts.

11 MEMBER ROBERTS: Tanya Roberts from
12 CFI. I have two questions. It occurs to me that
13 in a lot of these processed products that are not
14 ready-to-eat and that they're ready to put in the,
15 they're frozen and then you either microwave them
16 or whatever for lunch or for dinner, do they have
17 a much higher pathogen load than it would be if it
18 was like a fresh chicken cutlet?

19 Because some of these are preformed
20 product, even the beef ones they might be, have the
21 lean textured beef in them or, so that because they
22 may have a past inspection of the fresh product they

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1 may be put in the required for cooking products.

2 So --

3 MR. WHEELER: I think it's going to
4 vary depending upon -- I'm not a microbiologist and
5 I don't know about the microbiology of all these
6 various products.

7 MEMBER ROBERTS: Okay. And you
8 haven't looked at that as part of this project.

9 MR. WHEELER: Yes. But I think it
10 could vary because, you know, you could have a
11 chicken patty that's breaded or you could have
12 chopped and formed, like the veal --

13 MEMBER ROBERTS: Right.

14 MR. WHEELER: -- was chopped and
15 formed. But you could get a veal steak that's --

16 MEMBER ROBERTS: Sure.

17 MR. WHEELER: -- a whole muscle that's
18 just been breaded. So it could --

19 MEMBER ROBERTS: Yes. That could
20 cause considerable confusion too.

21 MR. WHEELER: Correct.

22 MEMBER ROBERTS: But then the second

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1 question is, if it's frozen maybe you have
2 increased heat resistance from the salmonella.
3 Because I was reading one paper where they talked
4 about just putting the chicken in the refrigerator
5 for one day increased the heat resistance of the
6 pan-fried chicken the next day. I was really
7 shocked at that.

8 MR. WHEELER: I'm not a
9 microbiologist. Maybe Dan --

10 MR. ENGELJOHN: Thank you. Dan
11 Engeljohn with Food Safety and Inspection Service.

12 Tanya, thank you for the question. So
13 I did want to just touch on the first issue that
14 you asked about with regards to microbiological
15 level or load at the product.

16 The agency does not test this type of
17 product and so we don't have information as to
18 whether or not this product has a higher or lower
19 level of microbiology in what we would consider to
20 be there on the raw, whole muscle type products,
21 nor does the agency have a current microbiological
22 verification program where we're swabbing the food

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1 contact surfaces or the environment to know whether
2 or not there is higher unsanitary level in the types
3 of operations handling this product.

4 I can tell you that the agency does have
5 plans to move forward with both types of products.
6 So although it's not directly related to this
7 issue, we certainly would welcome input on that.
8 But there's a vast need for information such as what
9 you're asking about.

10 On the resistance thing, I don't have
11 a specific answer for you, but I know that we will
12 follow-up to see if we can find additional
13 information to know whether or not that presents
14 additional concerns.

15 MEMBER ROBERTS: Thank you.

16 MR. PAYNE: Okay, next we have Pat,
17 then John, and then Betsy.

18 MEMBER CURTIS: Understand where we're
19 going with the questions that we're asking about
20 the icons and that they understand those, I guess
21 I have a more basic question.

22 Is there any research that actually

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1 shows what consumers perceive to be ready-to-cook
2 products or not? I mean, we're making certain
3 assumptions that these are the type of products
4 that would need those labels, and you're asking
5 consumers questions about the labels.

6 Do we ask them any questions about what
7 they perceive to be a ready-to-eat product so that
8 we understand that they agree with our assumptions?

9 MR. WHEELER: There may have been sort
10 of research back in 2003, or in near-about that
11 time frame, but I don't know if they asked that
12 particular question. I'd have to go back and look
13 at that and research. I think RTI might have done
14 that. And I'd have to go back and look at that to
15 refresh my memory on that.

16 MEMBER CURTIS: It just seems like that
17 would be an important area in determining what
18 products needed the special labeling.

19 MR. WHEELER: Yes. But I don't think,
20 I don't know. I think we showed them labels and
21 asked them, you know, based on the package do you
22 think this product is ready-to-eat or not

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1 ready-to-eat? But I don't recall us going out
2 there and saying do you think a hot dog is
3 ready-to-eat?

4 And I know that, you know, years ago
5 when I was young, there was all kinds of debate that
6 could you take a hot dog and eat it. Could you take
7 a hot dog right out of the refrigerator, you know,
8 pull it open and eat it.

9 And the fellow next door, he used to eat
10 the hot dogs right out of the refrigerator, and it
11 disgusted me. I never thought of eating a raw hot
12 dog, but it is ready-to-eat.

13 So people have had various opinions
14 about that and I don't know whether we've asked that
15 particular question about, you know, is a hot dog
16 ready-to-eat, is a pate?

17 I mean, we consider those to be
18 ready-to-eat. A hot dog, at least by the standard
19 of identity it's ready-to-eat, but whether, you
20 know, everyone considers a pate to be ready-to-eat,
21 I don't know.

22 MEMBER MARCY: John Marcy, University

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1 of Arkansas. I'm glad you have this chain or label
2 in your presentation because it goes along with
3 your question of what you want because it seems like
4 they covered all the points, you know, cooking
5 temperature, use of thermometers.

6 You know, in terms of not having any
7 cooking instruction, just the fact it has a cooking
8 warning for using in microwaves, there is no
9 cooking instruction for using in the microwave.
10 It says do not do this, very clear.

11 You know, your next thing, there were
12 illnesses. Do you have any information related to
13 the illnesses of how that product was prepared?

14 MR. WHEELER: No, I don't.

15 MEMBER MARCY: Does anybody?

16 MR. WHEELER: I don't know whether the
17 recall staff, epidemiology staff, I don't know what
18 background information they may have gotten on
19 that.

20 MEMBER MARCY: Okay.

21 MEMBER BOOREN: Betsy Booren, the Meat
22 Institute. Following very closely to Dr.

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1 Curtis's, when one of the questions the group is
2 considering is requirement statements.

3 And I think something to consider is
4 that the statement like not ready-to-eat, I know
5 what that term means in the vernacular and what it
6 means within the food industry, but I'm always
7 amazed when consumers could think that that means
8 not safe to eat, as in it's not safe for human
9 consumption.

10 So again getting to your point on what
11 are words, terms that can be used, I think careful
12 consideration needs to be given of if these are safe
13 and wholesome products that have gone through
14 inspection that we're not scaring our consumers
15 from eating them purely by a label.

16 The other, my main question is this is a
17 complex food mixed dish item that's primarily
18 meat/poultry, what you've given as examples, but
19 many complex mixed dish food items are also
20 regulated by FDA.

21 How, do you have any insights or can
22 provide any insights onto this group, because of

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1 the complexity of the food system and inspection
2 and regulation, how is what you're posing, is FDA
3 considering similar types of activities for their
4 not ready-to-eat food products that they're
5 regulating?

6 I'm just thinking from a
7 standardization type across the food industry. I
8 think that would be helpful information.

9 MR. WHEELER: I don't know what FDA's
10 anticipating.

11 MR. PAYNE: Okay. We have Dr.
12 Krzysztof Mazurczak and then Ms. Sherri Jenkins.

13 MEMBER MAZURCZAK: Krzysztof
14 Mazurczak, Illinois Department of Agriculture, and
15 I would like to comment.

16 Just today, during previous
17 presentations when talking about revising safe
18 handling instructions, now we're talking about
19 additional requirements for certain types of meat
20 and poultry products.

21 In June, we have a final rule coming in
22 effect of requiring plants, establishments to list

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1 and validate the cooking instructions on product.

2 And just looking at examples of
3 pictures with labels of meat products, they become
4 crowded. It's hard to sort it out what kind of
5 information is really important for the consumer,
6 what type of information is expected to be taken
7 very seriously.

8 So my general comment is that I think
9 we will have to prioritize those messages on the
10 label, and those are really important to protecting
11 public health.

12 And the second comment is I think what's
13 on occasion is really backfiring in all entities
14 involved with meat inspection is that there's
15 tendency of layering new regulations over existing
16 regulations, and on occasions they are just
17 complicating and preventing the general public
18 from receiving the proper message.

19 And the last but not least I think that
20 instructions should be very simple and realistic.
21 I would dare all in these to acknowledge who knows
22 how strong their microwave oven is, I mean, the

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1 wattage that they have in their own kitchen. And
2 we've seen those examples that using microwave at
3 600 watts honestly, I do not know the strength of
4 my own microwave oven. Also what
5 concerns me is instructions for using thermometer.
6 And it's based on the fact not too many people
7 realize that on most common household thermometer
8 there's an indentation point that requires the stem
9 to be pushed at least half inch into the product
10 to get accurate reading, and with like breaded
11 steaks it's impossible.

12 So to end up, I think let me just to
13 summarize what I was talking about. I hope that
14 we can find a way to prioritize those messages and
15 make them more believable. Thank you.

16 MEMBER JENKINS: Sherri Jenkins, JBS.
17 I guess on one of the slides I just wanted to state
18 I think we need some clarification. It's one on
19 Page 7 of the handout, and maybe it says 124 on it,
20 where it talks about if you're making a not
21 ready-to-eat product, which means you haven't
22 identified it with the packaging a hazard because

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1 it's going to go through a lethality step, I just
2 want to make sure that we're not saying, since back
3 in 2002, 2003 the Federal Register published that
4 for ground beef, which is non ready-to-eat, it's
5 not intended to be eaten raw, that we have to have
6 the hazard of E. coli O157:H7 in there, and here
7 recently with the non-O157 STECs.

8 So I just want to make sure that we're
9 not saying that since it's not ready-to-eat,
10 something of that nature, so a list of products or
11 things that would constitute that not ready-to-eat
12 needs further, if we're going to make a statement
13 like this because it kind of goes contradictory to
14 what the current agency thinking has been, unless
15 I'm reading this a little differently.

16 So I just wanted to make sure that
17 there's some clarification or there's a discussion
18 point in the afternoon group.

19 MR. ENGELJOHN: So this is Engeljohn.
20 I'll just -- with FSIS. So I'll just clarify that.
21 I do think there's a distinction for raw beef versus
22 these products, which are not raw beef they're

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1 processed products.

2 But for the raw beef where we have an
3 adulterant determined, labeling cannot be used as
4 a mechanism to not address the hazard. So that's
5 one issue related to beef.

6 On these products that we're talking
7 about here, none of them have an identified hazard
8 or an adulterant determined, so the pathogens that
9 likely are present in these products are being
10 addressed through a subsequent lethality that the
11 consumer is applying.

12 So in that particular case there is an
13 expectation that there is a potential contaminant
14 in the product and that the lethality delivered by
15 the end user will in fact make them sick.

16 So I just wanted to make the distinction
17 that for beef because we've declared O157 to be an
18 adulterant, labeling cannot be a mechanism to undo
19 that hazard.

20 MEMBER JENKINS: And so with that the
21 rest of the list and what it would pertain to, I
22 think, is very important because I don't think you

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1 want that misinterpreted later on and more
2 questions later.

3 MR. PAYNE: Looks like we have two more
4 questions and/or comments from Tanya Roberts and
5 then Randall Phebus before we break for lunch.

6 MEMBER ROBERTS: This is a point of
7 clarification on my earlier question about when a
8 product is declared that it's not safe to eat as,
9 you know, under inspection as a raw product, then
10 it can be sent to be put into a cooked product such
11 as these, or does that mean it can only be in a
12 canned product, and if this is a frozen product that
13 hasn't really yet been cooked but you expect the
14 consumer to cook it, do you make that kind of a
15 differentiation?

16 MR. ENGELJOHN: So this is Engeljohn.
17 I'll clarify it. No, if a product's been
18 determined to be unfit --

19 MEMBER ROBERTS: Yes.

20 MR. ENGELJOHN: -- then it cannot be
21 used for human food purposes.

22 MEMBER ROBERTS: Oh, any of it.

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1 MR. ENGELJOHN: If it's a, if the
2 determination is that the product can be used but
3 it can only be used in a product that receives a
4 full lethality. Then within the FSIS inspected
5 facilities that may be labeled as for further
6 processing which would indicate that it has to go
7 to another federally inspected facility and made
8 into a ready-to-eat product in that federal
9 facility.

10 MEMBER ROBERTS: Okay.

11 MR. ENGELJOHN: So the products we're
12 talking about here are being prepared and handled
13 under we would hope relatively sanitary conditions
14 to reduce the microbial contamination in that
15 product to a level that the manufacturer deems can
16 be made safe by how that product is prepared
17 typically by the consumer.

18 And so again we don't have standards for
19 any of these products as finished products, nor do
20 we have standards on the sanitary conditions of the
21 facilities.

22 And so there's this unknown about is the

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1 level of contamination on these products too great
2 for the consumer actually to make them safe? So
3 that is an important question that we ultimately
4 do need to answer.

5 MEMBER ROBERTS: Thank you.

6 MEMBER PHEBUS: Randy Phebus, Kansas
7 State University. Back around 2007 when some of
8 the Chicken Kiev and Cordon Bleu type products were
9 involved we did a study, and this is not really
10 related to labeling but I think it has an impact.

11 We looked at a lot of retail products
12 like this, and they would be stored side by side
13 in the retail case. And the packages and the
14 pictures on the packages, the colors and the
15 schemes on the packages were the same whether it
16 was ready-to-eat or not ready-to-eat, and talking
17 about a very confusing issue for the consumer.

18 So, you know, in addition to the
19 labeling, there might be some best practices that
20 we could tell processors to make sure these
21 packages look different. The retailers, maybe
22 they could separate them in the retail case so that

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1 they're not so confusing to the consumers.

2 MR. WHEELER: Okay.

3 MR. PAYNE: Okay. We'll come to the
4 point now where we'll break for lunch, and if any
5 questions do come up that the committee members
6 think of, bring them up when we reconvene.

7 We'll try to be back here in an hour at
8 1:30, so we can move on with our afternoon
9 subcommittee deliberations. You can bring it up
10 during the brief period of time before we break out
11 into two subcommittees.

12 I want to thank Mr. Wheeler for his
13 thorough overview on the labeling here.

14 So there is a list of facilities,
15 eateries in the vicinity, in the area. They should
16 be in the binder for the committee members. If
17 not, so you can always ask your staff for some
18 recommendations for a quick bite to eat. So let's
19 see everybody back here at 1:30.

20 (Whereupon, the above-entitled matter
21 went off the record at 12:26 p.m. and resumed at
22 1:31 p.m.)

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1 MR. PAYNE: Okay. Good afternoon,
2 everyone. It's 1:30, so let's reconvene for this
3 afternoon's deliberations. While people are
4 taking their seats, I just want to remind everyone
5 those who want to make a comment, please feel free
6 to sign up at the sheet there at the registration
7 desk.

8 The comments that I mentioned earlier
9 from the American Frozen Foods Institute, the
10 Association of Food and Drug Officials, the Safe
11 Food Coalition, we have copies of those comments
12 available out on the counter for anyone to take.
13 We did distribute them to each of the committee
14 members.

15 And at our tabletop exhibit across,
16 outside, we do have free resources including these
17 Guidance for Controlling Lm in Retail Delis, both
18 in English and in Spanish for example, so please
19 take copies of these.

20 We also have our food safety resources
21 brochure. Anything listed there is free of course
22 and we will handle that for you.

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1 So we'll get started now with just for
2 the record to go through the two subcommittees and
3 their respective charges that they are given.
4 Obviously you heard the charges or the issues that
5 were provided right before lunch.

6 And I will go through just for the
7 record the Subcommittee 1, this subcommittee will
8 focus on the FSIS Best Practices Guidance for
9 Controlling *Listeria monocytogenes* in Retail
10 Delis.

11 On that subcommittee we have Dr. Betsy
12 Booren, Dr. Randall Phebus, Dr. Manpreet Singh, Dr.
13 Dustin Oedekoven, and there's Sherri Jenkins, Ms.
14 Sherika Harvey, and Dr. John Marcy.

15 For Subcommittee 2, which will focus
16 on the Consideration of Mandatory Labeling
17 Features for Certain Processed Not Ready-to-eat
18 Meat and Poultry Products, we have Dr. Michael
19 Crupain, Dr. Alice Johnson, Dr. Krzys Mazurczak,
20 Dr. Michael Rybolt, Dr. Patricia Curtis, Dr. Tanya
21 Roberts, and Mr. Kurt Brandt. That rounds out
22 Subcommittee 2.

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1 Now for Subcommittee 1, let's back up
2 here. Subcommittee 1 will stay here in this
3 auditorium. With Subcommittee 1 we will have the
4 moderator of Ms. Kaitlin Keller from the Outreach
5 and Partnership Division to keep things moving
6 along.

7 And based on the discussion of some
8 requests I brought down some copies of the Code of
9 Federal Regulations for this subcommittee. If
10 there's any reference that needs to be made to check
11 the CFR, two copies here.

12 We're also trying to get access to the
13 CDC FoodNet data online. So once we break into the
14 two subcommittees we'll try to get that access for
15 you to that data that you can have.

16 For Subcommittee 2, you will be with Dr.
17 Robert Boyle there in the back. Dr. Boyle will
18 escort you to Room 6. And I ask for those of you
19 on Subcommittee 2 to take your tent cards with you,
20 because in order to facilitate a free-flowing
21 dialogue but in an orderly manner, Dr. Boyle as well
22 as Ms. Keller will ask you to raise your tent cards

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1 during the discussion.

2 These two subcommittees are open to the
3 public. You are welcome to go into each one and
4 go back and forth between each one. Public
5 comments are welcome.

6 So if there any comment, for anybody to
7 make any question or comment, please state your
8 name and affiliation again for the record. We have
9 court reporters in each of the two subcommittee
10 meeting rooms.

11 So with that said, are there any final
12 questions before we break into the two groups?

13 Seeing none, we will go ahead and begin
14 our subcommittee deliberations.

15 (Whereupon, the above-entitled matter
16 went off the record at 1:38 p.m. and resumed at 4:41
17 p.m.)

18 MR. PAYNE: So it seems like we had very
19 productive dialogue in both of the Subcommittee
20 sessions and we want to thank our respective
21 Subcommittee Chairs, for Subcommittee 1 it was Ms.
22 Sherika Harvey, for Subcommittee 2 it was Dr.

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1 Michael Crupain.

2 MEMBER HARVEY: Thank you.

3 MR. PAYNE: Thank you very much. And
4 for Dr. Crupain and Ms. Harvey are there any other
5 issues? Do you need extra time in the morning to
6 reconvene your Subcommittees?

7 MEMBER HARVEY: I think we all agreed
8 to leave it where it was, so that's our draft.

9 MR. PAYNE: Okay, thank you. And I
10 received a negative from Mr. Crupain on meeting
11 earlier. So you are welcome even throughout the
12 night over dinner to think over your draft
13 recommendations, these are draft.

14 And we do have a hard copy that Ms.
15 Williams has here for the Subcommittee 2's draft
16 recommendations. These are made available to all
17 Committee Members and we will soon have the draft
18 recommendations from Subcommittee 1 to pass out to
19 all Committee Members.

20 And I want to thank our moderators, Ms.
21 Kaitlin Keller for Subcommittee 1, and Dr. Robert
22 Boyle for Subcommittee 2.

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1 So if you look at tomorrow's agenda,
2 instead of 8:45 we'll convene our meeting, we'll
3 start promptly at 9:00 a.m. I do encourage you to
4 arrive here earlier, as early as 8:30 if you'd like,
5 but definitely we want to start at 9:00 a.m.

6 And for your binders, you are welcome
7 to leave them in here in this room. It is locked
8 up at night. Obviously, take your personal
9 belongings with you back to the hotel.

10 Are there any final questions or
11 comments from the Subcommittees regarding the
12 Subcommittees?

13 (No audible response.)

14 MR. PAYNE: Okay, I'm seeing none.
15 And so what we'll do, I think we had one commenter
16 who signed up for the public comment session. I
17 think it's Mr. Tony Corbo. Mr. Corbo?

18 MR. CORBO: Thanks, Keith. Tony
19 Corbo, Food and Water Watch. First of all, I want
20 to thank the Agency for posing two very interesting
21 questions for the Committee to tackle.

22 I am not going to comment on the work

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1 of the Committee today. We were one of the
2 signatories of the Safe Food Coalition letter that
3 we submitted in advance.

4 But I do want to comment on the report
5 that Jane Doherty gave earlier today, both comments
6 and questions.

7 The reason I want to do that is a couple
8 of weeks ago the Deputy Undersecretary for Food
9 Safety, Alfred Almanza, testified before the House
10 Agriculture Committee and one of the members of the
11 Committee asked Mr. Almanza what was the biggest
12 challenge the Agency faced, and Mr. Almanza's
13 response was "Making sure that the countries that
14 export their meat, poultry, and egg products to the
15 United States maintain their equivalency status."

16 And so I consider that to be, you know,
17 kind of a significant statement because of the fact
18 that we are importing more of our food.

19 We have had droughts in parts of the
20 country where livestock herds have been liquidated
21 and it's been a long haul trying to repopulate those
22 livestock herds, so we are importing more of our

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1 meat products, and more countries are asking for
2 equivalency determinations.

3 So among the comments that I would like
4 to make is that a year ago when Ms. Doherty came
5 to the Committee she indicated that one of her goals
6 was to post equivalency audits in a more timely
7 fashion.

8 And I have noticed that some
9 equivalency audits that were conducted two years
10 ago still don't have reports posted on the FSIS
11 website, so I would like to know what the status
12 is of her work to try to expedite the posting of
13 those reports.

14 The January 2013 Federal Register
15 Notice that was mentioned earlier called for a
16 3-tiered rating scheme to be used to assess
17 countries food safety systems, and that 3-tiered
18 grading system would essentially dictate how
19 frequently FSIS would do onsite audits and the
20 types of port of entry inspections the Agency would
21 do.

22 In 2015 most of the audit reports that

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1 were posted had those ratings. The rating were
2 adequate and a country that received an adequate
3 rating would receive more frequent onsite audits
4 and there would be a greater scrutiny of their
5 products coming in at the ports of entry that was
6 average, which would be a lesser scrutiny of their
7 products, and then well performing where the Agency
8 would not do audits as frequently, upwards of maybe
9 three years.

10 Late last year all of a sudden the
11 rating system left, it was dropped, and I would like
12 to know what the Agency intends to do in terms of
13 advising the public how frequently they are going
14 to be doing audits of foreign countries now that
15 the rating system is gone.

16 I found it interesting that there is a
17 discussion going on on the definition of government
18 inspection, and I'd like to know where that
19 discussion is taking place, which countries that
20 seems to be an issue.

21 I want to thank Tanya Roberts for
22 raising the issue of Chinese poultry. This has

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1 been a 12-year saga that I have been intimately
2 involved with and I have an issue with the audit
3 that was posted on China for its slaughter system
4 because it almost seems that FSIS is granting
5 equivalency just for a couple of provinces in China
6 and not as a country as a whole.

7 We're not looking at the whole food
8 safety system of China and the Chinese have already
9 indicated that they are going to certify, you know,
10 certain plants that can export their own poultry
11 to the United States.

12 I find this, you know, kind of
13 intriguing because I have always been told that
14 whenever FSIS does an equivalency determination it
15 is evaluating the country's entire food safety
16 system and now it seems that in China's case we are
17 segmenting that.

18 I also found it ironic that three days
19 after FSIS posted its audit reports for China there
20 was a story that appeared in an international food
21 press, a food trade press, that quoted the head of
22 China's FDA lamenting that he cannot keep up with

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1 the number of instances of adulterated food in his
2 country, and the picture that was shown on that
3 article was of poultry.

4 So if somehow there seems to be a
5 disconnect between what FSIS auditors found in
6 China and what the Chinese food safety officials
7 are reporting.

8 The concern that I have always had with
9 this issue is that it's a beef for chicken swap.
10 This goes back to the 2003 BSE case here in the
11 United States where China stopped importing our
12 beef and China has been very clear that if they are
13 going to take our beef then we're going to have to
14 accept their poultry, seems to be a quid pro quo.

15 And it's not lost on me that, for
16 example, Cargill all of a sudden is one of the, are
17 two of the plants, two of their plants in China are
18 going to be designated as being able to export their
19 poultry to the United States, and it would not
20 surprise me that Cargill is going to start
21 exporting beef to China once the equivalency
22 determination is made here for Chinese poultry.

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1 On the issue with catfish, part of the
2 Trans Pacific Partnership negotiations involved a
3 letter that was negotiated between USDA and Vietnam
4 where USDA committed to follow all WTO obligations
5 in the implementation of a new catfish inspection
6 program.

7 And the USDA committed to Vietnam that
8 it would conduct technical meetings with the
9 Vietnamese officials so that Vietnam could comply
10 with the FSIS food safety regulations.

11 We have sent a technical team to
12 Vietnam, there were 3-day sessions from what I
13 understand, and then lo and behold on March the 18th
14 Vietnam files a protest letter with the World Trade
15 Organization claiming that the new inspection
16 system is going to be too onerous on Vietnam. I
17 would like to know how the Agency is responding to
18 those concerns.

19 The international program here at FSIS
20 is critical. As I said earlier we are importing
21 more of our food and I do not want to see our
22 standards being diminished for trade

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1 considerations. Thank you.

2 MR. PAYNE: Thank you, Mr. Corbo, for
3 your specific questions and comments there. Are
4 there any other folks who would like to make a
5 comment?

6 (No audible response.)

7 MR. PAYNE: I am seeing none, so I am
8 now looking to Mr. Philip Derfler to officially
9 close the meeting.

10 MR. DERFLER: Sure.

11 MR. PAYNE: And he indicates sure, we
12 are adjourning the meeting. So we'll see each
13 other tomorrow morning. We'll start promptly at
14 9 o'clock.

15 (Whereupon, the above-entitled matter
16 went off the record at 4:52 p.m.)

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